

LITERATURE CITED

- ABPLANALP, H., K. SATO, D. NAPOLITANO, AND J. REID. 1992. Reproductive performance of inbred congenic leghorns carrying different haplotypes for the major histocompatibility complex. *Poultry Science* 71:9–17.
- ADASKAVEG, J. E., AND J. M. OGAWA. 1990. Wood decay pathology of fruit and nut trees in California. *Plant Disease* 74:341–352.
- ADLER, G. H. 1992. Endemism in birds of tropical Pacific islands. *Evolutionary Ecology* 6:296–306.
- ADVISORY COUNCIL ON HISTORIC PRESERVATION. 1994. Defense department compliance with the national historic preservation act. Prepared by Advisory Council on Historic Preservation, Washington, D.C.
- AINLEY, D. G., AND R. J. BOEKELHEIDE (EDITORS). 1990. *Seabirds of the Farallon Islands: ecology, structure and dynamics of an upwelling system community*. Stanford University Press, Palo Alto, CA.
- AINLEY, D. G., AND D. P. DEMASTER. 1980. Survival and mortality in a population of Adélie Penguins. *Ecology* 61:522–530.
- AINLEY, D. G., R. PODOLSKY, L. DEFOREST, AND G. SPENCER. 1997a. New insights into the status of the Hawaiian Petrel on Kauai. *Colonial Waterbirds* 20: 20–34.
- AINLEY, D. G., R. PODOLSKY, L. DEFOREST, G. SPENCER, AND N. NUR. 1995. The ecology of Newell's Shearwater and Dark-rumped Petrel on Kauai, Hawaii. *Tech. Rep. 3521–02 (EPRI TR-105847-V2)*, Kauai endangered seabird study. Vol. 2. Electric Power Research Institute, Palo Alto, CA.
- AINLEY, D. G., C. A. RIBIC, AND R. C. WOOD. 1990. A demographic study of the South Polar Skua *Catharacta maccormicki* at Cape Crozier. *Journal of Animal Ecology* 59:1–20.
- AINLEY, D. G., T. C. TELFER, AND M. H. REYNOLDS. 1997b. Townsend's and Newell's Shearwater (*Puffinus auricularis*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 297. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- AKEY, B. L., J. K. NAYAR, AND D. J. FORRESTER. 1981. Avian pox in Florida wild turkeys: *Culex nigripalpus* and *Wyeomyia vanduzeei* as experimental vectors. *Journal of Wildlife Diseases* 17:597–599.
- ALI, S., AND L. FUTEHALLY. 1970. *Common Indian birds*. International Publication Service, Calcutta, India.
- ALICATA, J. E. 1947. Parasites and parasitic diseases of domestic animals in the Hawaiian Islands. *Pacific Science* 1:69–84.
- ALITALO, K., J. M. BISHOP, D. H. SMITH, E. Y. CHEN, W. W. COLBY, AND A. D. LEVINSON. 1983. Nucleotide sequence of the *v-myc* oncogene of avian retrovirus MC29. *Proceedings of National Academy of Sciences (USA)* 80:100–104.
- ALLANDER, K., AND G. F. BENNETT. 1995. Retardation of breeding onset in Great Tits (*Parus major*) by blood parasites. *Functional Ecology* 9:677–682.
- ALLEN, J. 1997. Pre-contact landscape transformation and cultural change in windward O'ahu. Pp. 230–247 in P. V. Kirch and T. L. Hunt (editors). *Historical Ecology in the Pacific islands*. Yale University Press, New Haven, CT.
- ALLEN, J. A. 1998. Mangroves as alien species: the case of Hawaii. *Global Ecology and Biogeography Letters* 7:61–71.
- ALLISON, A. 1996. Zoogeography of amphibians and reptiles of New Guinea and the Pacific region. Pp. 407–436 in A. Keast and S. E. Miller (editors). *The origin and evolution of Pacific island biotas, New Guinea to Eastern Polynesia: patterns and processes*. SPB Academic Publications, Amsterdam, the Netherlands.
- AMADON, D. 1950. The Hawaiian honeycreepers (Aves, Drepaniidae). *Bulletin of the American Museum of Natural History* 95:151–262.
- AMADON, D. 1964. The evolution of low reproductive rates in birds. *Evolution* 18:105–110.
- AMADON, D. 1986. The Hawaiian honeycreepers revisited. *'Elepaio* 46:83–84.
- AMADON, D., AND L. L. SHORT. 1976. Treatment of subspecies approaching species status. *Systematic Zoology* 25:161–167.
- AMARASEKARE, P. 1993. Potential impact of mammalian nest predators on endemic forest birds of western Mauna Kea, Hawaii. *Conservation Biology* 7: 316–324.
- AMARASEKARE, P. 1994. Ecology of introduced small mammals on western Mauna Kea, Hawaii. *Journal of Mammalogy* 75:24–38.
- AMERICAN ORNITHOLOGISTS' UNION. 1983. *Check-list of North American birds*. 6th edition. Allen Press, Lawrence, KS.
- AMERICAN ORNITHOLOGISTS' UNION. 1985. Thirty-fifth supplement to the American Ornithologists' Union check-list of North American birds. *Auk* 102:680–686.
- AMERICAN ORNITHOLOGISTS' UNION. 1991. Thirty-eighth supplement to the American Ornithologists' Union check-list of North American birds. *Auk* 108: 750–754.
- AMERICAN ORNITHOLOGISTS' UNION. 1993. Thirty-ninth supplement to the American Ornithologists' Union check-list of North American birds. *Auk* 110:675–682.
- AMERICAN ORNITHOLOGISTS' UNION. 1995. Fortieth supplement to the American Ornithologists' Union check-list of North American birds. *Auk* 112:819–830.
- AMERICAN ORNITHOLOGISTS' UNION. 1997. Forty-first supplement to the American Ornithologists' Union check-list of North American birds. *Auk* 114:542–552.
- AMERICAN ORNITHOLOGISTS' UNION. 1998. *Checklist of North American Birds*. 7th edition. American Ornithologists' Union, Washington, D.C.
- AMERICAN ORNITHOLOGISTS' UNION. 2000. Forty-second supplement to the American Ornithologists' Union check-list of North American birds. *Auk* 117: 847–858.
- AMERSON, A. B. 1969. Ornithology of the Marshall and Gilbert Islands. *Atoll Research Bulletin* 127:1–348.
- AMERSON, A. B., JR. 1971. The natural history of French frigate shoals, Northwestern Hawaiian Islands. *Atoll Research Bulletin* No. 150.
- AMERSON, A. B., JR., R. B. CLAPP, AND W. O. WIRTZ,

- II. 1974. The natural history of Pearl and Hermes Reef, Northwestern Hawaiian Islands. Atoll Research Bulletin No. 174.
- ANDERS, A. D., D. C. DEARBORN, J. FAABORG, AND F. R. THOMPSON, III. 1997. Juvenile survival in a population of neotropical migrant birds. *Conservation Biology* 11:698–707.
- ANDERSON, A. 1984. The extinction of moa in southern New Zealand. Pp. 728–740 in P. S. Martin and R. G. Klein (editors). *Quaternary extinctions: a prehistoric revolution*. University of Arizona Press, Tucson, AZ.
- ANDERSON, A. J. 1989. *Prodigious birds Moas and Moa hunting in prehistoric New Zealand*. Cambridge University Press, Cambridge, MA.
- ANDERSON, M. G., J. M. RHYMER, AND F. C. ROHWER. 1992. Philopatry, dispersal, and the genetic structure of waterfowl populations. Pp. 365–395 in B. D. J. Batt, A. D. Afton, M. G. Anderson, C. D. Ankney, D. H. Johnson, J. A. Kadlec, and G. L. Krapu (editors). *Ecology and management of breeding waterfowl*. University of Minnesota Press, Minneapolis, MN.
- ANDERSON, R. M. 1979. Parasite pathogenicity and the depression of host population equilibria. *Nature* 279: 150–152.
- ANDERSON, R. M., AND R. M. MAY. 1978. Regulation and stability of host-parasite population interactions: I. regulatory processes. *Journal of Animal Ecology* 47:219–247.
- ANDERSON, R. M., AND R. M. MAY. 1982. Coevolution of hosts and parasites. *Parasitology* 85:411–426.
- ANDERSON, S. J., AND C. P. STONE. 1993. Snaring to control feral pigs *Sus scrofa* in a remote Hawaiian rain forest. *Biological Conservation* 63:195–201.
- ANDERSON, S. J., AND C. P. STONE. 1994. Indexing sizes of feral pig populations in a variety of Hawaiian natural areas. *Transactions of the Western Section of the Wildlife Society* 30:26–39.
- ANDERSON, W. B., AND G. A. POLIS. 1998. Marine subsidies of island communities in the Gulf of California: evidence from stable carbon and nitrogen isotopes. *Oikos* 81:75–80.
- ANDERSON, W. B., AND G. A. POLIS. 1999. Nutrient fluxes from water to land: seabirds affect plant nutrient status on Gulf of California islands. *Oecologia* 118:324–332.
- ANDREWARTHA, H. G., AND L. C. BIRCH. 1954. The distribution and abundance of animals. University of Chicago Press, Chicago, IL.
- APPS, P. J. 1986. Home ranges of feral cats on Dassen Island. *Journal of Mammalogy* 67:199–200.
- ARBOGAST, B. S., AND J. B. SLOWINSKI. 1998. Pleistocene speciation and the mitochondrial DNA clock. *Science* 282:1955a.
- ARMSTRONG, R. W. (EDITOR). 1983. *Atlas of Hawaii*. 2nd edition. University of Hawaii Press, Honolulu, HI.
- ARNAUD, P. 1956. The heleid genus *Culicoides* in Japan, Korea and Ryukyu Islands (Insecta: Diptera). *Microentomology* 21:84–207.
- ATHENS, J. S. 1997. Hawaiian native lowland vegetation in prehistory. Pp. 248–270 in P. V. Kirch and T. L. Hunt (editors). *Historical ecology in the Pacific Islands*. Yale University Press, New Haven, CT.
- ATKINSON, C. T., R. J. DUSEK, AND W. M. IKO. 1993a. Avian malaria fatal to juvenile I'iwi. *Hawaii's Forests and Wildlife* 8:1, 11.
- ATKINSON, C. T., R. J. DUSEK, AND W. M. IKO. 1993b. Epidemic pox and malaria in native forest birds. *Hawaii's Forests and Wildlife* 8:10.
- ATKINSON, C. T., R. J. DUSEK, AND J. K. LEASE. 2001. Serological responses and immunity to superinfection with avian malaria in experimentally-infected Hawaiian Amakihi. *Journal of Wildlife Diseases* 37: 20–27.
- ATKINSON, C. T., R. J. DUSEK, K. L. WOODS, AND W. M. IKO. 2000. Pathogenicity of avian malaria in experimentally-infected Hawaii Amakihi. *Journal of Wildlife Diseases* 36:197–204.
- ATKINSON, C. T., W. HANSER, J. PRICE, L. SILEO, D. LAPONTE, M. L. GOFF, C. LOCHER, AND L. TAM. 1993c. Role of disease in limiting the distribution and abundance of Hawaiian forest birds. Annual Report, work unit 932.11, period 24 April 1992–1 June 1993. Hawaii Volcanoes Field Station, National Wildlife Health Research Center, HI.
- ATKINSON, C. T., K. L. WOODS, R. J. DUSEK, L. S. SILEO, AND W. M. IKO. 1995. Wildlife disease and conservation in Hawaii: pathogenicity of avian malaria (*Plasmodium relictum*) in experimentally infected I'iwi (*Vestiaria coccinea*). *Parasitology* 111: S59–S69.
- ATKINSON, I. A. E. 1977. A reassessment of factors, particularly *Rattus rattus* L., that influenced the decline of endemic forest birds in the Hawaiian Islands. *Pacific Science* 31:109–133.
- ATKINSON, I. A. E. 1985. The spread of commensal species of *Rattus* to oceanic islands and their effects on island avifaunas. Pp. 35–81 in P. J. Moors (editor). *Conservation of island birds*. International Council for Bird Preservation Technical Publication No. 3. Cambridge, UK.
- ATKINSON, I. A. E. 1989. Introduced animals and extinctions. Pp. 54–75 in D. Western and M. C. Pearl (editors). *Conservation for the twenty-first century*. Oxford University Press, New York, NY.
- ATKINSON, I. A. E., AND B. D. BELL. 1973. Offshore and outlying islands. Pages 372–392 in G. B. Williams (editor). *The Natural History of New Zealand*. A. H. and A. W. Reed, Wellington, New Zealand.
- ATWOOD, J. L., AND C. T. COLLINS. 1997. The Island Scrub-Jay: origins, behavior, and ecology. *Birding* 29:476–485.
- AUSTIN, G. T., AND R. E. RICKLEFS. 1977. Growth and development of the Rufous-winged Sparrow (*Aimophila carpalis*). *Condor* 79:37–50.
- AUSTIN, J. E., AND M. R. MILLER. 1995. Northern Pintail (*Anas acuta*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 163. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- AVERY, R. A. 1966. Helminth parasites of wildfowl from Slimbridge Gloucestershire. I. Parasites of captive Anatidae. *Journal of Helminthology* 40:269–280.
- AVISE, J. C. 1994. Molecular markers, natural history and evolution. Chapman and Hall, New York, NY.
- AVISE, J. C., C. D. ANKNEY, AND W. S. NELSON. 1990. Mitochondrial gene trees and the evolutionary rela-

- tionship of Mallard and Black Ducks. *Evolution* 44: 1109–1119.
- AVISE, J. C., AND C. F. AQUADRO. 1982. A comparative summary of genetic distances in the vertebrates: patterns and correlations. Pp. 151–185 in M. K. Hecht, B. Wallace, and G. T. Prance (editors). *Evolutionary biology*. Vol. 15. Plenum Press, New York, NY.
- AVISE, J. C., AND J. L. HAMRICK. 1996. Conservation genetics: case histories from nature. Chapman and Hall, New York, NY.
- BACON, L. D., AND R. L. WHITTER. 1980. B2 determines resistance of Marek's disease tumor in contrast to B5 in F5 chickens. *Federation Proceedings* 39:938.
- BAILEY, A. M. 1956. Birds of Midway and Laysan islands. *Denver Museum Pictorial* No. 12. Denver, CO.
- BAILEY, E. P., AND G. W. KAISER. 1993. Impacts of introduced predators on nesting seabirds in the northeast Pacific. Pp. 218–226 in K. Vermeer, K. T. Briggs, K. H. Morgan, and D. Siegel-Causey (editors). *The status, ecology, and conservation of marine birds of the North Pacific*. Canadian Wildlife Service, Ottawa, Ontario.
- BAKER, H., AND P. E. BAKER. 2000a. Maui 'Alauahio (*Paroreomyza montana*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 504. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- BAKER, H. G., AND I. BAKER. 1973. Amino-acids in nectar and their evolutionary significance. *Nature* 241:543–545.
- BAKER, H. G., AND I. BAKER. 1975. Studies of nectar constitution and plant-pollinator coevolution. Pp. 100–140 in L. E. Gilbert and P. H. Raven (editors). *Coevolution in animals and plants*. University of Texas Press, Austin, TX.
- BAKER, J. K., AND C. A. RUSSELL. 1979. Mongoose predation on a nesting Nēnē. *Elepaio* 40:51–52.
- BAKER, P. E. 1998. A description of the first live Poouli captured. *Wilson Bulletin* 110:307–310.
- BAKER, P. E., AND H. BAKER. 1996. Nene report: egg and gosling mortality in Haleakala National Park, 1994–1995. Final report submitted to Hawaii Department of Land and Natural Resources, Division of Forestry and Wildlife, Honolulu, HI.
- BAKER, P. E., AND H. BAKER. 2000b. Kākāwahie (*Paroreomyza flammeal*) and O'ahu 'Alauahio (*Paroreomyza maculata*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 503. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- BAKER, R. H. 1946. Some effects of the war on the wildlife of Micronesia. *Transactions of the North American Wildlife Conference* 11:205–213.
- BAKER, R. H. 1951. The avifauna of Micronesia, its origin, evolution, and distribution. *University of Kansas Publications of the Museum of Natural History* 3:1–359.
- BAKER, R. H. 1953. Divisional discussion on problems of bird migration in the Pacific. Pp. 383–387 in *Proceedings of the Seventh Pacific Science Congress*. Vol. 4. Whitcomb and Tombs, Auckland, New Zealand.
- BALDWIN, P. H. 1945. The Hawaiian Goose, its distribution and reduction in numbers. *Condor* 47:27–37.
- BALDWIN, P. H. 1947a. Foods of the Hawaiian Goose. *Condor* 49:108–120.
- BALDWIN, P. H. 1947b. The life history of the Laysan Rail. *Condor* 49:14–21.
- BALDWIN, P. H. 1953. Annual cycle, environment and evolution in the Hawaiian honeycreepers (Aves: Drepanidae). *University of California Publications in Zoology* 52:285–398.
- BALDWIN, P. H. 1969a. The Hawaiian Hawk from 1938 to 1949. *Elepaio* 29:95–98.
- BALDWIN, P. H. 1969b. The 'Alalā (*Corvus tropicus*) of western Hawaii Island. *Elepaio* 30:41–45.
- BALDWIN, P. H., AND G. O. FAGERLUND. 1943. The effect of cattle grazing on koa reproduction in Hawaii National Park. *Ecology* 24:118–122.
- BALDWIN, P. H., C. W. SCHWARTZ, AND E. R. SCHWARTZ. 1952. Life history and economic status of the mongoose in Hawaii. *Journal of Mammalogy* 33:335–356.
- BALOUET, J. C., AND S. L. OLSON. 1987. A new extinct species of giant pigeon (Columbidae: *Ducula*) from archeological deposits on Wallis (Uvea) Island, South Pacific. *Proceedings of the Biological Societies of Washington* 100:769–775.
- BANKO, P. C. 1982. Productivity of wild and captive Nene populations. Pp. 12–32 in *Proceedings of the Fourth Hawaii Volcanoes National Park National Science Conference*. Cooperative National Park Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, P. C. 1992. Constraints on productivity of wild Nene or Hawaiian Geese *Branta sandvicensis*. *Wildfowl* 43:99–106.
- BANKO, P. C., J. M. BLACK, AND W. E. BANKO. 1999. Hawaiian Goose (Nene) (*Branta sandvicensis*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 434. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- BANKO, P. C., S. C. HESS, L. JOHNSON, AND S. J. DOUGILL. 1998. Palila population estimate for 1997. *Elepaio* 58:11,14–15.
- BANKO, P. C., AND J. WILLIAMS. 1993. Eggs, nests, and nesting behavior of Akiapolaau (Drepanidinae). *Wilson Bulletin* 105:427–435.
- BANKO, W. E. 1968. Rediscovery of Maui Nukupuu, *Hemignathus lucidus affinis*, and sighting of Maui Parrotbill, *Pseudonestor xanthophrys*, Kipahulu Valley, Maui, Hawaii. *Condor* 70:265–266.
- BANKO, W. E. 1979. History of endemic Hawaiian birds specimens in museum collections. *Avian History Report 2*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E. 1980a. History of endemic Hawaiian birds. Part 1. Population histories—species accounts, forest birds: Hawaiian Raven/Crow. *Avian history report 6B*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E. 1980b. History of endemic Hawaiian birds. Part 1. Population histories—species accounts, forest birds: Hawaiian thrushes. *Avian History Report 6C–6D*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E. 1980c. History of endemic Hawaiian

- birds. CPSU/UH Avian History Report 026/10. Cooperative National Park Resources Studies Unit, University of Hawaii at Manoa, Honolulu, HI.
- BANKO, W. E. 1980d. History of endemic Hawaiian birds. Part I. Population histories—species accounts, sea birds: Hawaiian Dark-rumped Petrel (Uau). Avian History Report 5B. Cooperative National Park Resources Studies Unit, University of Hawaii at Manoa, Honolulu, HI.
- BANKO, W. E. 1981a. History of endemic Hawaiian birds. Part I. Population histories—species accounts, forest birds: 'Elepaio, Oo, Kioea. Avian History Report 7A–7B. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E. 1981b. History of endemic Hawaiian birds. Part I. Population histories—species accounts, forest birds: *Vestiaria coccinea*, *Drepanis funerea*, *Drepanis pacifica*. Avian History Report 11A–11B. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E. 1984a. History of endemic Hawaiian birds. Part I. Population histories—species accounts, forest birds: Amakihi, Creeper, Akepa, and Poo-uli. Avian History Report 8A–8C. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E. 1984b. History of endemic Hawaiian birds. Part I. Population histories—species accounts, forest birds: Akialoa, Nukupuu, and Akiapolaau. Avian History Report 9. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E. 1986. History of endemic Hawaiian birds. Part I. Population histories—species accounts, forest birds: Maui Parrotbill, Ou, Palila, Greater Koa Finch, Lesser Koa Finch, and Grosbeak Finch. Avian History Report 10. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- BANKO, W. E., AND P. C. BANKO. 1976. Role of food depletion by foreign organisms in historical decline of Hawaiian forest birds. Pp. 29–34 in C. W. Smith (editor). Proceedings of the First Conference in Natural Sciences in Hawaii. Cooperative National Park Research Studies Unit, University of Hawaii, Honolulu, HI.
- BANKS, R. C., AND R. C. LAYBOURNE. 1977. Plumage sequence and taxonomy of Laysan and Nihoa finches. Condor 79:343–348.
- BARKER, R. H., JR., T. BANCHONGAKSORN, J. M. COURVAL, W. SUWONKERD, K. RIMWUNGTRAGOON, AND D. F. WIRTH. 1992. A simple method to detect *Plasmodium falciparum* directly from blood samples using the polymerase chain reaction. American Journal of Tropical Medicine and Hygiene 46:416–426.
- BARRERA, W., JR. 1971. Anaehoomalu: a Hawaiian oasis; preliminary report of salvage research in South Kohala, Hawaii. Pacific Anthropological Records No. 15. Department of Anthropology, Bernice Pauahi Bishop Museum, Honolulu, HI.
- BARTLE, J. A., D. HU, J.-C. STAHL, P. PYLE, T. R. SIMMONS, AND D. WOODBY. 1993. Status and ecology of gadfly petrels in the temperate North Pacific. Pp. 101–111 in K. Vermeer, K. T. Briggs, K. H. Morgan, and D. Siegel-Causey (editors). The status, ecology, and conservation of marine birds of the North Pacific. Canadian Wildlife Service Special Publication, Ottawa, Ontario.
- BEAN, M. 1983. The evolution of national wildlife law. Praeger, New York, NY.
- BEAN, M. J., AND M. J. ROWLAND. 1997. The evolution of national wildlife law. 3rd edition. Praeger, Westport, CT.
- BEARDSLEY, J. W. 1979. New immigrant insects in Hawaii: 1962–1976. Proceedings Hawaiian Entomological Society 23:35–44.
- BEATY, J. J. 1966. Guam's curious critters. The Pacific Journal. December 18:4.
- BÉDARD, J., AND G. GAUTHIER. 1989. Comparative energy budgets of Greater Snow Geese (*Chen caerulescens caerulescens*) staging in two habitats in spring. Ardea 77:1–20.
- BEISSINGER, S. B. 1995. Population trends of the Marbled Murrelet projected from demographic analyses. Pp. 385–394 in C. J. Ralph, G. L. Hunt, Jr., M. G. Martin, and J. F. Piatt (editors). Ecology and conservation of the Marbled Murrelet. USDA Forest Service General Technical Report PSW-GTR-152. USDA Forest Service, Albany, CA.
- BELL, A. D. 1991. Plant form. Oxford University Press, New York, NY.
- BELL, B. D. 1978. The Big South Cape Islands rat irruption. Pp. 33–40 in P. R. Dingwall, I. A. E. Atkinson, and C. Hay (editors). The ecology and control of rodents in New Zealand nature reserves. New Zealand Department of Lands and Survey Information Series 4. Wellington, New Zealand.
- BELLROSE, F. C. 1976. Ducks, geese, and swans of North America. Stackpole Books, Harrisburg, PA.
- BELLROSE, F. C., T. C. SCOTT, A. S. HAWKINS, AND J. B. LAW. 1961. Sex ratios and age ratios in North American Ducks. Bulletin Illinois Natural History Survey 27:6.
- BELOVSKY, G. E. 1987. Extinction models and mammalian persistence. Pp. 35–58 in M. E. Soulé (editor). Viable populations for conservation. Cambridge University Press, Cambridge, UK.
- BENNETT, A. F., L. F. LUMSDEN, AND A. O. NICHOLLS. 1994. Tree hollows as a resource for wildlife in remnant woodlands: spatial and temporal patterns across the northern plains of Victoria, Australia. Pacific Conservation Biology 1:222–235.
- BERGER, A. J. 1966. Behavior of a captive Mockingbird. Jack-Pine Warbler 44:8–13.
- BERGER, A. J. 1967. The incubation period of the Hawaiian Stilt. Auk 84:130.
- BERGER, A. J. 1969a. The breeding season of the Hawaiian Amakihi. Occasional Papers B. P. Bishop Museum 24:1–8.
- BERGER, A. J. 1969b. The nest, eggs, and young of the Elepaio. Wilson Bulletin 81:333–335.
- BERGER, A. J. 1969c. Discovery of the nest of the Hawaiian Thrush. Living Bird 8:243–250.
- BERGER, A. J. 1970a. The present status of the birds of Hawaii. Pacific Science 24:29–42.
- BERGER, A. J. 1970b. The eggs and young of the Palila, an endangered species. Condor 72:238–240.
- BERGER, A. J. 1972. Hawaiian birdlife. University Press of Hawaii, Honolulu, HI.

- BERGER, A. J. 1974, 1975. History of exotic birds in Hawaii. 'Elepaio 35:60–65, 72–80.
- BERGER, A. J. 1975a. The Hawaiian Honeycreepers 1778–1974. 'Elepaio 35:97–100, 110–118.
- BERGER, A. J. 1975b. The Warbling Silverbill, a new nesting bird in Hawaii. Pacific Science 29:51–54.
- BERGER, A. J. 1975c. The Mockingbird on Hawaii Island. 'Elepaio 35:139.
- BERGER, A. J. 1975d. The Java Sparrow in Hawaii. 'Elepaio 36:14–16.
- BERGER, A. J. 1975e. Red-whiskered and Red-vented Bulbuls on Oahu. 'Elepaio 36:16–19.
- BERGER, A. J. 1975f. The Japanese Bush Warbler on Oahu. 'Elepaio 36:19–21.
- BERGER, A. J. 1977a. Aloha means goodby. National Wildlife 28:35.
- BERGER, A. J. 1977b. Nesting of the Yellow-fronted Canary on O'ahu. 'Elepaio 37:128.
- BERGER, A. J. 1977c. Nesting of the Japanese Bush Warbler. 'Elepaio 37:148.
- BERGER, A. J. 1977d. Rothschild's Starling in Wai-kīkī. 'Elepaio 37:149.
- BERGER, A. J. 1977e. Nesting seasons of some introduced birds in Hawaii. 'Elepaio 38:35–38.
- BERGER, A. J. 1981. Hawaiian birdlife. 2nd edition. University of Hawaii Press, Honolulu, HI.
- BERLIN, K. E., T. K. PRATT, J. C. SIMON, J. R. KOWALSKY, AND J. S. HATFIELD. 2000. Plant phenology in a cloud forest on the island of Maui, Hawaii. Biotropica 32:90–99.
- BERLIN, K. E., AND E. M. VANGELDER. 1999. 'Ākohekohe (*Palmeria dolei*). In A. Poole and F. Gill (editors). The Birds of North America, No. 400. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- BEVACQUA, R. F. (EDITOR). 1972. Archaeological survey of portions of Waikoloa, South Kohala District, island of Hawaii. Department of Anthropology, Report Series No. 72–4. B. P. Bishop Museum, Honolulu, HI.
- BEVERLEY, S. M., AND A. C. WILSON. 1985. Ancient origin for Hawaiian Drosophilinae inferred from protein comparisons. Proceedings of the National Academy of Science 82:4753–4757.
- BEZONA, N. 1996. The tropical world in our Hawaiian gardens. Hawaii Landscape, December:4–5.
- BISHOP, J. G., III, AND J. A. HUNT. 1988. DNA divergence in and around the alcohol dehydrogenase locus in five closely related species of Hawaiian *Drosophila*. Molecular Biology and Evolution 5:415–431.
- BLACK, J. M. 1995. The Nene *Branta sandvicensis* Recovery Initiative: research against extinction. Ibis 137:S153–S160.
- BLACK, J. M., AND P. C. BANKO. 1994. Is the Hawaiian Goose (*Branta sandvicensis*) saved from extinction? Pp. 394–410 in P. J. Olney, G. M. Mace, and A. T. C. Feistner (editors). Creative conservation: interactive management of wild and captive animals. Chapman and Hall, London, UK.
- BLACK, J. M., C. DEERENBERG, AND M. OWEN. 1991. Foraging behaviour and site selection of Barnacle Geese *Branta leucopsis* in a traditional and newly colonised spring staging habitat. Ardea 79:349–358.
- BLACK, J. M., A. P. MARSHALL, A. GILBURN, N. SAN-
TOS, H. HOSHIDE, J. MEDEIROS, J. MELLO, C. N. HODGES, AND L. KATAHIRA. 1997. Survival, movement, and breeding of released Hawaiian Geese: an assessment of the reintroduction program. Journal of Wildlife Management 61:1161–1173.
- BLACK, J. M., J. PROP, J. M. HUNTER, F. WOOG, A. P. MARSHALL, AND J. M. BOWLER. 1994. Foraging behaviour and energetics of the Hawaiian Goose *Branta sandvicensis*. Wildfowl 45:65–109.
- BLEDSOE, A. H. 1988a. A hybrid *Oporornis philadelphicus* × *Geothlypis trichas*, with comments on the taxonomic interpretation and evolutionary significance of intergeneric hybridization. Wilson Bulletin 100:1–8.
- BLEDSOE, A. H. 1988b. Nuclear DNA evolution and phylogeny of the New World nine-primaried Oscines. Auk 105:504–515.
- BLOOMER, J. P., AND M. N. BESTER. 1992. Control of feral cats on sub-Antarctic Marion Island, Indian Ocean. Biological Conservation 60:211–219.
- BLOXOM, A. J. 1925. Diary of Andrew Bloxom, naturalist of the "Blonde." S. M. Jones (editor). B. P. Bishop Museum Special Publication 10.
- BOAG, P. T. 1988. The genetics of island birds. Acta XIX Congressus Internationalis Ornithologici 19: 1550–1563.
- BOCK, C. E., A. CRUZ, JR., M. C. GRANT, C. S. AID, AND T. R. STRONG. 1992. Field experimental evidence for diffuse competition among southwestern riparian birds. American Naturalist 140:815–828.
- BOCK, C. E., AND R. E. RICKLEFS. 1983. Range size and local abundance of some North American songbirds: a positive correlation. American Naturalist 122:295–299.
- BOCK, W. J. 1960. The palatine process of the premaxilla in the Passeres. Bulletin of the Museum of Comparative Zoology 122: 361–488.
- BOCK, W. J. 1970. Microevolutionary sequences as a fundamental concept in macroevolutionary models. Evolution 24:704–722.
- BOCK, W. J. 1978. Tongue morphology and affinities of the Hawaiian honeycreeper *Melamprosops phaeosoma*. Ibis 120:467–479.
- BOCK, W. J. 1979. The synthetic explanation of macroevolutionary change—a reductionist approach. Bulletin of the Carnegie Museum of Natural History 13:20–69.
- BOEKELHEIDE, R. J., AND D. G. AINLEY. 1989. Age, resource availability, and breeding effort in Brandt's Cormorant. Auk 106:389–401.
- BOICE, L. P. 1997. Meeting current challenges to DoD's Conservation program. Federal Facilities Environmental Journal 8:29–37. John Wiley and Sons, New York, NY.
- BORKENT, A., AND W. W. WIRTH. 1997. World species of biting midges (Diptera: Ceratopogonidae). Bulletin of the American Museum of Natural History 233:1–257.
- BORRIELLO, F., AND K. S. KRAUTER. 1991. Reactive site polymorphism in the murine protease inhibitor gene family is delineated using a modification of the PCR reaction (PCR+1). Nucleic Acids Research 18: 5481–5487.
- BOTTIUS, E., A. GUANZIROLI, J. F. TRAPE, C. ROGIER, L. KONATE', AND P. DRUILHE. 1996. Malaria: even

- more chronic in nature than previously thought: evidence for subpatent parasitaemia detectable by the polymerase chain reaction. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 90:15–19.
- BOURKE, R. M. 1982. Sweet potato in Papua, New Guinea. Pp. 45–57 in R. L. Villareal and T. D. Griggs (editors). *Sweet potato: proceedings of the first international symposium*. AVRDC Publication No. 82–172. Asian Vegetable Research and Development Center, Shanhua, Tainan, Taiwan, China.
- BOWERS, N. M. 1950. Problems of resettlement on Saipan, Tinian and Rota, Mariana Islands. Ph.D. dissertation. University Michigan, Ann Arbor, MI.
- BRADLEY, J. S., R. D. WOOLLER, I. J. SKIRA, AND D. L. SERVENTY. 1989. Age-dependent survival of breeding Short-tailed Shearwaters *Puffinus tenuirostris*. *Journal of Animal Ecology* 58:175–188.
- BRANDT, C. A., J. K. PARRISH, AND C. N. HODGES. 1995. Predictive approaches to habitat quantification: Dark-rumped Petrels on Haleakala, Maui. *Auk* 112:571–579.
- BREGULLA, H. L. 1992. Birds of Vanuatu. Anthony Nelson, Shropshire, England.
- BREITWISCH, R. 1989. Mortality patterns, sex ratios, and parental investment in monogamous birds. *Current Ornithology* 6:1–50.
- BREMER, K. 1988. The limits of amino acid sequence data in angiosperm phylogenetic reconstruction. *Evolution* 42:795–803.
- BRENNAN, J. 1974. The Parker Ranch of Hawaii: the saga of a ranch and a dynasty. John Day, New York, NY.
- BREWBAKER, J. L., AND C. T. SORENSSON. 1994. Domestication of lesser-known species of the genus *Leucaena*. Pp. 195–204 in R. R. B. Leakey and A. C. Newton (editors). *Tropical trees: the potential for domestication and rebuilding of forest resources*. Institute of Terrestrial Ecology, HMSO, London, UK.
- BRICE, A. T. 1992. The essentiality of nectar and arthropods in the diet of Anna's hummingbird (*Calypte anna*). *Comparative Biochemistry and Physiology* 101A:151–155.
- BRICE, A. T., AND C. R. GRAY. 1991. Protein requirements of Costa's hummingbird *Calypte costae*. *Physiological Zoology* 64:611–626.
- BRIDGES, K. W., C. H. LAMOUREUX, D. MUELLER-DOMBOIS, P. Q. TOMICH, J. R. LEEPER, J. W. BEARDSLEY, W. A. STEFFAN, Y. K. PAIK, AND K. C. SUNG. 1981. Temporal variation of organism groups studied. Pp. 391–422 in D. Mueller-Dombois, K. W. Bridges, and H. L. Carson (editors). *Island ecosystems: biological organization in selected Hawaiian communities*. Hutchinson Ross Publishing Company, Stroudsburg, PA.
- BRIGHAM, W. T. 1899. Hawaiian feather work. *Memoirs of the B. P. Bishop Museum* 1:1–81. B. P. Bishop Museum, Honolulu, HI.
- BRILES, W. E. 1954. Evidence for overdominance of the *B* blood group alleles in the chicken. *Genetics* 39:961–962.
- BRILES, W. E., AND C. P. ALLEN. 1961. The *B* blood group system of chickens. Part II. The effects of genotype on livability and egg production in seven commercial inbred lines. *Genetics* 46:1273–1293.
- BRILES, W. E., C. P. ALLEN, AND T. W. MILLEN. 1957. The *B* blood group system. Part I. Heterozygosity in closed populations. *Genetics* 42:631–648.
- BRILES, W. E., R. W. BRILES, W. H. MCGIBBON, AND H. A. STONE. 1980. Identification of *B* alloalleles associated with resistance to Marek's disease. Pp. 395–416 in P. M. Briggs (editor). *Resistance and immunity to Marek's disease*. CEC Pub. EUR 6470, Luxembourg.
- BRILES, W. E., R. W. BRILES, R. E. TAFFS, AND H. A. STONE. 1983. Resistance to a malignant lymphoma in chickens is mapped to a subregion of the major histocompatibility (*B*) complex. *Science* 219:977–979.
- BRILES, W. E., R. M. GOTO, C. AUFRAY, AND M. M. MILLER. 1993. A polymorphic system related to but genetically independent of the chicken major histocompatibility complex. *Immunogenetics* 37:408–414.
- BRILES, W. E., W. H. MCGIBBON, AND M. R. IRWIN. 1948. Studies of the time of development of cellular antigens in the chicken. *Genetics* 33:97.
- BRILES, W. E., AND M. OLESON. 1971. Differential depletion of *B* blood group genotypes under stress of Marek's disease. *Poultry Science* 50:1558.
- BRILES, W. E., H. A. STONE, AND R. K. COLE. 1977. Marek's disease: effects of *B* histocompatibility alloalleles in resistant and susceptible chicken lines. *Science* 195:193–195.
- BROCK, R. E. 1994. Final report, fish communities of the Nu'uupia Fishponds, Nu'uupia Ponds Wildlife Management Area, Mokapu, O'ahu, Hawai'i. Appendix B in R. M. Towill (editor). 1995. Environmental study of Nu'uupia Ponds Wildlife Management Area, Kaneohe Bay, Hawai'i. Environmental Assessment Co., Honolulu, HI.
- BROCK, V. E. 1951a. Laysan Island bird census. *Elepaio* 12:17–18.
- BROCK, V. E. 1951b. Some observations on the Laysan Duck, *Anas wyvilliana laysanensis*. *Auk* 68:371–372.
- BROMHAM, L., A. RAMBAUT, AND P. H. HARVEY. 1996. Determinants of rate variation in mammalian DNA sequence evolution. *Journal of Molecular Evolution* 43:610–621.
- BROOKE, M. 1990. The Manx Shearwater. T. and A. D. Poyer, Calton, UK.
- BROOKE, M. DE L., AND I. R. HARTLEY. 1995. Nesting Henderson Reed-warblers (*Acrocephalus vaughani taiti*) studied by DNA fingerprinting: unrelated coalitions in a stable habitat? *Auk* 112:77–86.
- BROWN, C. L., R. G. MCAPLINE, AND P. P. KORMANIK. 1967. Apical dominance and form in woody plants: a reappraisal. *American Journal of Botany* 54:153–162.
- BROWN, J. H. 1984. On the relationship between abundance and distribution of species. *American Naturalist* 124:255–279.
- BROWN, J. H., AND A. KODRIC-BROWN. 1977. Turnover rates in insular biogeography: effect of immigration on extinction. *Ecology* 58:445–449.
- BROWN, J. H., D. W. MEHLMAN, AND G. C. STEVENS. 1995. Spatial variation in abundance. *Ecology* 76: 2028–2043.
- BROWN, W. M., M. GEORGE, JR., AND A. C. WILSON.

1979. Rapid evolution of animal mitochondrial DNA. *Proceedings of the National Academy of Sciences (USA)* 76:1967–1971.
- BROWN, W. Y. 1976. The breeding of sooty terns and brown noddies on Manana Island, Hawaii. *Condor* 78:61–66.
- BROWNE, R. A., D. J. ANDERSON, J. N. HOUSER, F. CRUZ, K. J. GLASGOW, C. N. HODGES, AND G. MASSEY. 1997. Genetic diversity and divergence of endangered Galápagos and Hawaiian petrel populations. *Condor* 99:812–815.
- BROWNE, R. A., C. R. GRIFFIN, P. R. CHANG, M. HUBLEY, AND A. E. MARTIN. 1993. Genetic divergence among populations of the Hawaiian Duck, Laysan Duck, and Mallard. *Auk* 110:49–56.
- BROWNIE, C., J. E. HINES, AND J. D. NICHOLS. 1986. Constant-parameter capture-recapture models. *Biometrics* 42:561–574.
- BRYAN, E. H., JR. 1938. The much maligned mongoose. *Paradise Pacific* 50:32–34.
- BRYAN, E. H., JR. 1963. Discussion. Pp. 38 in F. R. Fosberg (editor). *Man's place in the island ecosystem*. B. P. Bishop Museum, Honolulu, HI.
- BRYAN, E. H., JR., AND J. C. GREENWAY, JR. 1944. Contribution to the ornithology of the Hawaiian Islands. *Bulletin Museum Comparative Zoology* 94:80–142.
- BRYAN, L. W. 1947. Twenty-five years of forestry work on the Island of Hawaii. *Hawaiian Planter's Record* 51:1–80.
- BRYAN, W. A. 1901. A key to the birds of the Hawaiian group. *Memoirs of the Bishop Museum* 1:258–332.
- BRYAN, W. A. 1908. Some birds of Molokai. *Occasional Papers B. P. Bishop Museum* 4:133–176.
- BRYAN, W. A. 1917. Description of *Teleospiza ultima* from Nihoa Island. *Auk* 34:70–72.
- BRYAN, W. A., AND A. SEALE. 1901. Notes on the birds of Kauai. *Occasional Papers B. P. Bishop Museum* 1:129–137.
- BUCKLAND, S. T., D. R. ANDERSON, K. P. BURNHAM, AND J. L. LAKE. 1993. Distance sampling: estimating abundance of biological populations. Chapman and Hall, New York, NY.
- BUCKLEY, F. G., AND P. A. BUCKLEY. 1974. Comparative feeding ecology of wintering adult and juvenile Royal Terns (Aves: Laridae, Sterninae). *Ecology* 55: 1053–1063.
- BUMSTEAD, N., H. WAIN, N. SALMON, AND J. SILLIBOURNE. 1995. Genomic mapping of immunological genes. Pp. 95–103 in T. F. Davison, N. Bumstead, and P. Kaiser (editors). *Advances in avian immunology research*. Carfax Publishing Co., Oxfordshire, UK.
- BURGAN, R. E. 1970. Study plan to detect growth rings in koa. USDA Forest Service Institute of Pacific Islands Forestry, Honolulu, HI.
- BURNESS, G. P., AND R. D. MORRIS. 1993. Direct and indirect consequences of mink presence in a Common Tern colony. *Condor* 95:708–711.
- BURROWS, C. 1997. High school hikers 1997 ecology camp. Malama I ka Honua (Cherish the Earth), Journal of the Hawai'i Chapter, Sierra Club, July–September 29(3).
- BURTON, P. J., AND D. MUELLER-DOMBOIS. 1984. Response of *Metrosideros polymorpha* seedlings to experimental canopy opening. *Ecology* 65:779–791.
- BURY, R. B., AND J. A. WHELAN. 1984. Ecology and management of the bullfrog. U.S. Fish and Wildlife Service Resource Publication 155:1–23.
- BUSTAMANTE, J. 1996. Population viability analysis of captive and released Bearded Vulture populations. *Conservation Biology* 10:822–831.
- BUTLER, D., AND D. MERTON. 1992. *The Black Robin: saving the world's most endangered bird*. Oxford University Press, New York, NY.
- BUTTERFIELD, B. P., W. E. MESHAKA, JR., AND C. GUYER. 1997. Nonindigenous amphibians and reptiles. Pp. 123–138 in D. Simberloff, D. C. Schmitz, and T.C. Brown (editors). *Strangers in paradise: impact and management of nonindigenous species in Florida*. Island Press, Washington, D.C.
- BYRD, G. V., AND D. S. BOYNTON. 1979. The distribution and status of Wedge-tailed shearwaters on Kauai. *'Elepaio* 39:129–131.
- BYRD, G. V., J. L. SINCOCK, T. C. TELFER, D. I. MORIARTY, AND B. G. BRADY. 1984. A cross-fostering experiment with Newell's shearwater. *Journal of Wildlife Management* 48:163–168.
- BYRD, G. V., AND T. C. TELFER. 1980. Barn owls prey on birds in Hawaii. *'Elepaio* 41:35–36.
- CADE, T. J., J. H. ENDERSON, C. G. THELANDER, AND C. M. WHITE (editors). 1988. *Peregrine Falcon populations: their management and recovery*. The Peregrine Fund, Boise, ID.
- CALDER, W. A. 1973. Microhabitat selection during nesting of hummingbirds in the Rocky Mountains. *Ecology* 54:127–134.
- CALDER, W. A., III. 1984. *Size, function, and life history*. Harvard University Press, Cambridge, MA.
- CALLCOTT, A.-M. A., AND H. L. COLLINS. 1996. Invasion and range expansion of imported fire ants (Hymenoptera: Formicidae) in North America from 1918–1995. *Florida Entomologist* 79:240–251.
- CAMPBELL, E. W. 1996. The effect of brown tree snake (*Boiga irregularis*) predation on the island of Guam's extant lizard assemblages. Ph.D. dissertation. Ohio State University, Columbus, OH.
- CAMPBELL, R. W. 1990. *The birds of British Columbia*. Vol. 1. Royal British Columbia Museum, Victoria, BC.
- CAMPBELL, T. W. 1995. *Avian hematology and cytology*. 2nd edition. University of Iowa Press, Ames, IA.
- CANN, R. L., AND L. J. DOUGLAS. 1999. Parasites and conservation of Hawaiian birds. Pp. 121–136 in L. F. Landweber and A. P. Dobson (editors). *Genetics and the extinction of species*. Princeton University Press, Princeton, NJ.
- CANN, R. L., R. A. FELDMAN, L. AGULLANA, AND L. A. FREED. 1996. A PCR approach to detection of malaria in Hawaiian birds. Pp. 202–213 in T. B. Smith and R. K. Wayne (editors). *Molecular genetic approaches in conservation*. Oxford University Press, New York, NY.
- CAREY, A. B., AND H. R. SANDERSON. 1981. Routing to accelerate tree-cavity formation. *The Wildlife Society Bulletin* 9:14–21.
- CARLQUIST, S. 1970. *Hawaii: a natural history*. Natural History Press, New York, NY.
- CARLQUIST, S. 1974. *Island biology*. Columbia University Press, New York, NY.
- CAROTHERS, J. H. 1986a. Behavioral and ecological

- correlates of interference competition among some Hawaiian Drepanidae. *Auk* 103:564–574.
- CAROTHERS, J. H. 1986b. The effect of retreat site quality on interference-related behavior among Hawaiian honeycreepers. *Condor* 88:421–426.
- CARPENTER, F. L. 1976a. Ecology and evolution of an Andean hummingbird (*Oreotrochilus estrella*). University of California Publications in Zoology 106:1–74.
- CARPENTER, F. L. 1976b. Plant-pollinator interactions in Hawaii: pollination energetics of *Metrosideros collina* (Myrtaceae). *Ecology* 57:1125–1144.
- CARPENTER, F. L. 1978. A spectrum of nectar-eater communities. *American Zoologist* 18:809–819.
- CARPENTER, F. L., AND R. E. MACMILLEN. 1976. Threshold model of feeding territoriality and test with a Hawaiian honeycreeper. *Science* 194:639–642.
- CARPENTER, F. L., AND R. E. MACMILLEN. 1980. Resource limitation, foraging strategies and community structure in Hawaiian honeycreepers. *Proceedings of the 17th International Ornithological Congress* 17: 1100–1104.
- CARRINGTON, M., G. W. NELSON, M. P. MARTIN, T. KISSNER, D. VLAHOV, J. J. GOEDERT, R. KASLOW, S. BUCHBINDER, K. HOOTS, AND S. J. O'BRIEN. 1999. HLA and HIV-1: heterozygote advantage and B*35-Cw*04 disadvantage. *Science* 283:1748–1752.
- CARSON, H. L., AND D. A. CLAGUE. 1995. Geology and biogeography of the Hawaiian Islands. Pp. 14–29 in W. L. Wagner and V. A. Funk (editors). *Hawaiian biogeography: evolution in a hotspot archipelago*. Smithsonian Institution Press, Washington, D.C.
- CARSON, H. L., J. P. LOCKWOOD, AND E. M. CRADDOCK. 1990. Extinction and recolonization of local populations on a growing shield volcano. *Proceedings of the National Academy of Sciences (USA)* 87:7055–7057.
- CASEY, T. L. C., AND J. D. JACOBI. 1974. A new genus and species of bird from the island of Maui, Hawaii (Passeriformes: Drepanidae). *Occasional Papers B. P. Bishop Museum* 24:215–226.
- CAUM, E. L. 1933. The exotic birds of Hawaii. *Occasional Papers B. P. Bishop Museum* 10:1–55.
- CAVÉ, A. J. 1968. The breeding of the kestrel, *Falco tinnunculus* L., in the reclaimed area Oostelijk Flevoland. *Netherlands Journal of Zoology* 18:313–407.
- CGAPS (COORDINATING GROUP ON ALIEN PEST SPECIES). 1996. The silent invasion. Info Grafik, Honolulu, HI.
- CHALLIES, C. N. 1975. Feral pigs (*Sus scrofa*) on Auckland Island: status and effects on vegetation and nesting seabirds. *New Zealand Journal of Zoology* 2:478–490.
- CHAPMAN, R. N. 1928. The quantitative analysis of environmental factors. *Ecology* 9:111–122.
- CHARNOV, E. L., AND J. R. KREBS. 1974. On clutch-size and fitness. *Ibis* 116:217–219.
- CHEKE, A. S. 1987. An ecological history of the Mascarene Islands, with particular reference to extinctions and introductions of land vertebrates. Pp. 5–89 in A. W. Diamond (editor). *Studies of Mascarene Island birds*. Cambridge University Press, Cambridge, UK.
- CHURCHER, P. B., AND J. H. LAWTON. 1987. Predation by domestic cats in an English village. *Journal of Zoology* 212:439–455.
- CID DEL PRADO VERA, A. R. MAGGENTI, AND C. VAN RIPER, III. 1985. New species of spiruridae (Nemata: Spirurida) from endemic Hawaiian honeycreepers (Passeriformes: Drepanidae) and from the Japanese White-eye (Zosteropinae: Spiruridae) and a new species of Acuriidae (Nemata: Spiruridae) collected on the island of Hawaii. *Proceedings of the Helminthology Society of Washington* 52:247–259.
- CLAGUE, D. A., AND G. B. DALRYMPLE. 1987. Tectonics, geochronology and origin of the Hawaiian-Emperor volcanic chain. Pp. 1–54 in R. W. Decker, T. L. Wright, and P. H. Stauffer (editors). *Volcanism in Hawaii*. U.S. Geological Survey Professional Paper 1350. U.S. Government Printing Office, Washington, D.C.
- CLAPP, R. B., E. KRIDLAR, AND R. R. FLEET. 1977. The natural history of Nihoa Island, Northwestern Hawaiian Islands. *Atoll Research Bulletin* No. 207.
- CLARE, R. A., R. L. TAYLOR, JR., W. E. BRILES, AND R. G. STROUT. 1989. Characterization of resistance and immunity to *Eimeria tenella* among major histocompatibility complex B-F/B-G recombinant hosts. *Poultry Science* 68:639–645.
- CLARK, H. L. 1912. Notes on the Laysan Finch. *Auk* 29: 166–168.
- CLUTTON-BROCK, T. H. 1991. *The evolution of parental care*. Princeton University Press, Princeton, NJ.
- CODY, M. L. 1966. A general theory of clutch size. *Evolution* 20:174–184.
- CODY, M. L. 1971. Ecological aspects of reproduction. Pp. 461–512 in D. S. Farner and J. R. King (editors). *Avian biology*. Vol. 1. Academic Press, New York, NY.
- COCKER, H. G. 1992. *Reptiles and amphibians of Australia*. 5th edition. Comstock Publishers, Ithaca, NY.
- COHEN, J. 1988. Statistical power analysis for the behavioral sciences. Lawrence Erlbaum, Hillsdale, NJ.
- COLE, F. R., A. C. MEDEIROS, L. L. LOOPE, AND W. W. ZUEHLKE. 1992. Effects of the Argentine ant on arthropod fauna of Hawaiian high-elevation shrubland. *Ecology* 73:1313–1322.
- COLLAR, N. J. 1996. Species concepts and conservation: a reply to Hazeveld. *Bird Conservation International* 6:197–200.
- COLLAR, N. J. 1997. Taxonomy and conservation: chicken and egg. *Bulletin of the British Ornithologists' Club* 117:122–136.
- COLLAR, N. J., M. J. CROSBY, AND A. J. STATTERSFIELD. 1994. Birds to watch 2: the world list of threatened birds. BirdLife International. *Birdlife Conservation Series No. 4*. Cambridge, UK.
- COLLINS, B. G., J. GREY, AND S. MCNEE. 1990. Foraging and nectar use in nectarivorous bird communities. *Studies in Avian Biology* 13:110–121.
- COLLINS, M. S. 1984. Observations on the nesting of the Hawaii 'Akepa. *'Elepaio* 45:1–2.
- COLLINS, M. W., W. E. BRILES, R. M. ZSIGRAY, W. R. DUNLOP, A. C. CORBETT, K. K. CLARK, J. L. MARKS, AND T. P. MCGRAIL. 1977. The *B* locus (Mhc) in the chicken: association with the fate of RSV-induced tumors. *Immunogenetics* 5:333–343.

- COMPTON, W. 1997. Annual mud ops, Nu'upia Ponds get torn up. Hawaii Marine. February 13:A-4.
- COMPUTER RESOURCE CENTER. 1993. Stata reference manual: Release 3.1. 6th edition. College Station, TX.
- CONANT, P., A. C. MEDEIROS, AND L. L. LOOPE. 1997. A multi-agency containment program for miconia (*Miconia calvescens*), an invasive tree in Hawaiian rain forests. Pp. 249–254 in J. Luken and J. Thieret (editors). Assessment and management of invasive plants. Springer-Verlag, New York, NY.
- CONANT, R., AND J. T. COLLINS. 1991. A field guide to reptiles and amphibians of eastern and central North America. Houghton Mifflin Co., Boston, MA.
- CONANT, S. 1977. The breeding biology of the Oahu 'Elepaio. Wilson Bulletin 89:193–210.
- CONANT, S. 1980. Recent records of the 'Ua'u (Dark-rumped Petrel) and the 'A'o (Newell's Shearwater) in Hawai'i. 'Elepaio 41:11–13.
- CONANT, S. 1981. Recent observations of endangered birds in Hawaii's national parks. 'Elepaio 41:55–61.
- CONANT, S. 1988a. Geographic variation in the Laysan Finch (*Telespiza cantans*). Evolutionary Ecology 2: 270–282.
- CONANT, S. 1988b. Saving endangered species by translocation: are we tinkering with evolution? BioScience 38:254–257.
- CONANT, S. 1995. Draft proposed rule for listing the Oahu 'Elepaio (*Chasiempis sandwichensis gayi*) as an endangered species under the U.S. Endangered Species Act of 1973 (as amended). Administrative report to the Ecological Services Office of the U.S. Fish and Wildlife Service, Honolulu, HI. Order No. 12200–5–0120, 1 February 1995.
- CONANT, S., M. S. COLLINS, AND C. J. RALPH. 1981. Effects of observers using different methods upon the total population estimates of two resident island birds. Studies in Avian Biology 6:377–381.
- CONANT, S., AND M. S. KJARGAARD. 1984. Annotated checklist of the birds of Haleakala National Park. Western Birds 15:99–110.
- CONANT, S., H. D. PRATT, AND R. J. SHALLENBERGER. 1998. Reflections on a 1975 expedition to the lost world of the Alaka'i and other notes on the natural history, systematics, and conservation of Kaua'i birds. Wilson Bulletin 110:1–22.
- COOCH, E. G., D. B. LANK, A. DZUBIN, R. F. ROCKWELL, AND F. COOKE. 1991. Body size variation in Lesser Snow Geese: environmental plasticity in gosling growth rates. Ecology 72:503–512.
- COOK, J. 1785. A voyage to the Pacific Ocean. 2nd edition. Vols. 2–3. Hughs, London, UK.
- COOPER, A. 1997. Studies of avian ancient DNA: from Jurassic Park to modern island extinctions. Pp. 345–373 in D. P. Mindell (editor). Avian molecular evolution and systematics. Academic Press, San Diego, CA.
- COOPER, A., J. RHYMER, H. F. JAMES, S. L. OLSON, C. E. MCINTOSH, M. D. SORENSEN, AND R. C. FLEISCHER. 1996. Ancient DNA and island endemics. Nature 381:484.
- COORAY, R. G., AND D. MUELLER-DOMBOIS. 1981. Population structure of woody species. Pp. 259–268 in D. Mueller-Dombois, K. W. Bridges, and H. L. Carson (editors). Island ecosystems: biological organization in selected Hawaiian communities. Hutchinson Ross, Stroudsburg, PA.
- COPEYON, C. K., J. R. WALTERS, AND J. H. CARTER, III. 1991. Induction of Red-cockaded Woodpecker group formation by artificial cavity construction. Journal of Wildlife Management 55:549–556.
- CORBETT, K. 1989. Key species in the Council of Europe area. Imperial House, Kent, UK.
- CORDY, R. 1984. Archaeological monitoring, dredging of sand-clogged channel between Pa'akai Pond and Kailua Bay, Marine Corps Air Station, Kaneohe Bay. Technical Report prepared by R. Cordy, Wai-pahu, HI.
- CORNELL LABORATORY OF ORNITHOLOGY. 1995. Hawaii's birds CD. Laboratory of Natural Sciences, Ithaca, NY.
- COULTER, M. C., F. CRUZ, AND J. CRUZ. 1985. A programme to save the Dark-rumped Petrel, *Pterodroma phaeopygia*, on Floreana Island, Galapagos, Ecuador. Pp. 177–180 in P. J. Moors (editor). Conservation of island birds. International Council for Bird Preservation Technical Publication No. 3. Cambridge, UK.
- COUNCIL ON ENVIRONMENTAL QUALITY, U.S. DEPARTMENTS OF AGRICULTURE, ARMY, COMMERCE, DEFENSE, ENERGY, HOUSING AND URBAN DEVELOPMENT, THE INTERIOR, JUSTICE, LABOR, STATE, TRANSPORTATION, ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF SCIENCE AND TECHNOLOGY POLICY. 1995. Attachment in Memorandum of the Under Secretary of Defense, Environmental Security (ES/EQ-CO), Letter of January 23, 1996. Prepared by Office of the Under Secretary of Defense, ES, Pentagon, Washington, D.C.
- COURT, A. 1992. Baedeker's Seychelles. Prentice Hall, New York, NY.
- COWIE, R. H., N. L. EVENHUIS, AND C. C. CHRISTENSEN. 1995. Catalog of the native land and freshwater molluscs of the Hawaiian Islands. Backhuys Publishers, Leiden, the Netherlands.
- COX, E. F., AND P. L. JOKIEL. 1997. Environmental study of Nuupia Ponds Wildlife Management Area, Marine Corps Base Hawaii, Kāne'ohe Bay. Final report. Prepared by Hawaii Institute of Marine Biology, Kāne'ohe, HI.
- CRACRAFT, J. 1983. Species concepts and speciation analysis. Current Ornithology 1:159–187.
- CRACRAFT, J. 1997. Species concepts in systematics and conservation biology—an ornithological viewpoint. Pp. 325–339 in M. F. Claridge, H. A. Dawah, and M. R. Wilson (editors). Species: the units of biodiversity. Chapman and Hall, London, UK.
- CRAIG, R. J. 1989. Observations on the foraging ecology and social behavior of the Bridled White-eye. Condor 91:187–192.
- CRAIG, R. J. 1990. Foraging behavior and microhabitat use of two species of white-eyes (*Zosteropidae*) on Saipan, Micronesia. Auk 107:500–505.
- CRAIG, R. J. 1992. Territoriality, habitat use and ecological distinctness of an endangered Pacific island Reed-warbler. Journal of Field Ornithology 63:436–444.
- CRAIG, R. J. 1996. Seasonal population surveys and natural history of a Micronesian bird community. Wilson Bulletin 108:246–267.

- CRAIG, R. J., AND E. TAISACAN. 1994. Notes on the ecology and population decline of the Rota Bridled White-eye. *Wilson Bulletin* 106:165–169.
- CRAWLEY, M. J. 1993. GLIM for ecologists. Blackwell Scientific Publications, Oxford, UK.
- CREWS, T. E., K. KITAYAMA, J. H. FOWNES, R. H. RILEY, D. A. HERBERT, D. MUELLER-DOMBOIS, AND P. M. VITOUSEK. 1995. Changes in soil phosphorus fractions and ecosystem dynamics across a long chronosequence in Hawaii. *Ecology* 76:1407–1424.
- CRONK, Q. C. B., AND J. L. FULLER. 1995. Plant invaders: the threat to natural ecosystems. Chapman and Hall, London, UK.
- CROXALL, J. P. (EDITOR). 1991. Seabird status and conservation: a supplement. International Council for Bird Preservation Technical Publication No. 11. Cambridge, UK.
- CROXALL, J. P., P. G. H. EVANS, AND R. W. SCHREIBER (EDITORS). 1984. Status and conservation of the world's seabirds. International Council for Bird Preservation Technical Publication No. 2. Cambridge, UK.
- CROXALL, J. P., AND A. J. GASTON. 1988. Patterns of reproduction in high-latitude Northern- and Southern-hemisphere seabirds. *Acta XIX Congressus Internationalis Ornithologici* 19:1176–1194.
- CUDDIHY, L. W., AND C. P. STONE. 1990. Alteration of native Hawaiian vegetation: effects of humans, their activities and introductions. University of Hawaii Press, Honolulu, HI.
- DALRYMPLE, G. H. 1994. Non-indigenous amphibians and reptiles in Florida. Pp. 67–78 in D. C. Schmitz and T. C. Brown (editors). An assessment of invasive non-indigenous species in Florida's public lands. Tech. Rep. TSS-94-100. Florida Department of Environmental Protection, Tallahassee, FL.
- DANIEL, J. C. 1983. The book of Indian reptiles. Oxford University Press, Bombay, India.
- DANIELS, S. E., AND G. B. WALKER. 1996. Collaborative learning: improving public deliberation in ecosystem-based management. *Environmental Impact Assessment Review* 16:71–102.
- DARWIN, C. 1859. On the origin of species. John Murray, London, UK.
- DASZAK, A., A. A. CUNNINGHAM, AND A. D. HYATT. 2000. Emerging infectious diseases of wildlife—threats to biodiversity and human health. *Science* 287:443–449.
- DE LA SALLE, H., D. HANAU, D. FRICKER, A. URLACHER, A. KELLY, J. SALAMERO, S. H. POWIS, L. DONATO, H. BAUSINGER, M. LAFORET, M. JERAS, D. SPEHNER, T. BIEBER, A. FALKENRODT, J. -P. CAZENAVE, J. TROWSDALE, AND M. -M. TONGIO. 1994. Homozygous human TAP peptide transporter mutation in HLA class I deficiency. *Science* 265:237–241.
- DE SANTO, T. L., AND S. K. NELSON. 1995. Comparative reproductive ecology of the auks (family Alcidae) with emphasis on the Marbled Murrelet. Pp. 33–48 in C. J. Ralph, G. L. Hunt, Jr., M. G. Martin, and J. F. Piatt (editors). *Ecology and conservation of the Marbled Murrelet*. Gen. Tech. Rep. PSW-GTR-152. USDA Forest Service, Albany, CA.
- DELACOUR, J., AND E. MAYR. 1945. The family Anatidae. *Wilson Bulletin* 57:3–55.
- DEMENT'EV, G. P., AND N. A. GLADKOV. 1952. Birds of the Soviet Union. Vol. 4. Translated from Russian in 1967 by Israeli Program for Scientific Translation, Jerusalem.
- DEPARTMENT OF DEFENSE. 1996. Instruction 4715.3. Environmental conservation program. Prepared by the Office of the Deputy Under Secretary of Defense Environmental Security, Pentagon, Washington, D.C.
- DERKSEN, D. V., AND W. D. ELDRIDGE. 1980. Drought-displacement of Pintails to the Arctic coastal plain, Alaska. *Journal of Wildlife Management* 44:224–229.
- DESALLE, R. 1992. The origin and possible time of divergence of the Hawaiian Drosophilidae: evidence from DNA sequences. *Molecular Biology and Evolution* 9:905–916.
- DESALLE, R., AND J. A. HUNT. 1987. Molecular evolution in Hawaiian drosophilids. *Trends in Ecological Evolution* 2:212–216.
- DIAMOND, J. M. 1972. Biogeographic kinetics: estimation of relaxation times for avifaunas of Southwest Pacific islands. *Proceedings of the National Academy of Sciences (USA)* 69:3199–3203.
- DIAMOND, J. M. 1975. Assembly of species communities. Pp. 342–344 in M. L. Cody and J. M. Diamond (editors). *Ecology and evolution of communities*. Belknap Press, Cambridge, MA.
- DIAMOND, J. M. 1977. Continental and insular speciation in Pacific land birds. *Systematic Zoology* 26: 263–268.
- DIAMOND, J. M. 1984. Historic extinctions: a rosetta stone for understanding prehistoric extinctions. Pp. 824–862 in P. S. Martin, and R. G. Klein (editors). *Quaternary extinctions: a prehistoric revolution*. University of Arizona Press, Tucson, AZ.
- DIAMOND, J. 1991. A new species of rail from the Solomon Islands and convergent evolution of insular flightlessness. *Auk* 108:461–470.
- DIAMOND, J. M., AND C. R. VEITCH. 1981. Extinctions and introductions in the New Zealand avifauna: cause and effect? *Science* 211:499–501.
- DICKINSON, V. M. 1995. Red imported fire ant predation on Crested Caracara nestlings in south Texas. *Wilson Bulletin* 107:761–762.
- DIXON, K. L. 1955. An ecological analysis of the interbreeding of crested titmice in Texas. *University of California Publications in Zoology* 54:125–206.
- DOBKIN, D. S., A. C. RICH, J. A. PRETARE, AND W. H. PYLE. 1995. Nest-site relationships among cavity-nesting birds of riparian and snowpocket aspen woodlands in the northwestern Great Basin. *Condor* 97:694–707.
- DOBSON, A. P., AND R. M. MAY. 1986. Patterns of invasions by pathogens and parasites. Pp. 58–76 in H. A. Mooney and J. A. Drake (editors.). *Ecology of biological invasions of North America and Hawaii*. Springer-Verlag, New York, NY.
- DOCHERTY, D. E., R. I. R. LONG, E. L. FLICKINGER, AND L. N. LOCKE. 1991. Isolation of poxvirus from debilitating cutaneous lesions on four immature gackles (*Quiscalus* sp.). *Avian Diseases* 35:244–247.
- DOCHERTY, D. E., AND R. I. ROMAINE LONG. 1986. Isolation of a poxvirus from a House Finch, *Carpodacus mexicanus* (Müller). *Journal of Wildlife Disease* 22:420–422.

- DRAHOS, N. 1977. Population dynamics of Guam birds. Unpublished report. Guam Aquatic and Wildlife Resources Division, Guam.
- DREES, B. M. 1994. Red imported fire ant predation on nestlings of colonial waterbirds. *Southwestern Entomologist* 19:355–359.
- DRIGOT, D. C. 1996. Protecting Nu'upia ancient fishponds. Pp. 188–193 in W. B. Stapp, A. E. J. Wals, M. R. Moss, and J. E. Goodwin (editors). International case studies on watershed education. Kendall/Hunt Publishing Co., Dubuque, IA for Global Rivers Environmental Education Network (GREEN), Ann Arbor, MI.
- DRIGOT, D. C., M. E. ELLIOTT, AND K. L. GLYN. 1991. Computer-aided mapping for facilities management and environmental compliance, a case study. *Cartographic Perspectives*, North American Cartographic Society, Bulletin No. 9, Spring 1991:3–14.
- DRIGOT, D. C., AND D. TUGGLE. 1984. Request for determination of eligibility, National Register of Historic Places, Mokapu Peninsula Fishpond Complex Nu'upia Ponds. Prepared for Keeper of the National Register by Marine Corps Air Station, Kāne'ohe Bay, HI.
- DUCKS UNLIMITED, INC. 1990. SPRIG: Population recovery strategy for the Northern Pintail. Ducks Unlimited Inc., Long Grove, IL.
- DUFFY, D. C. 1993. Stalking the southern oscillation: environmental uncertainty, climate change, and North Pacific seabirds. Pp. 61–67 in K. Vermeer, K. T. Briggs, K. H. Morgan, and D. Siegel (editors). The status, ecology, and conservation of marine birds of the North Pacific. Canadian Wildlife Service, Ottawa, Ontario.
- DUNCAN, R. P. 1997. The role of competition and introduction effort in the success of passeriform birds introduced to New Zealand. *American Naturalist* 149:903–915.
- DUNNING, J. B. 1992. CRC handbook of avian body masses. CRC Press, Boca Raton, FL.
- DUNNING, J. B., JR., AND J. H. BROWN. 1982. Summer rainfall and winter sparrow densities: a test of the food limitation hypothesis. *Auk* 99:123–129.
- EBERHARD, T. 1954. Food habits of Pennsylvania house cats. *Journal of Wildlife Management* 18:284–286.
- EDDINGER, C. R. 1970. A study of the breeding behavior of four species of Hawaiian honeycreeper (Drepanidae). Ph.D. dissertation. University of Hawaii, Honolulu, HI.
- EDWARDS, S. V., E. K. WAKELAND, AND W. K. POTTS. 1995. Contrasting histories of avian and mammalian Mhc genes revealed by class II Beta sequences from songbirds. *Proceedings of the National Academy of Sciences (USA)* 92:12200–12204.
- EEROLA, E., T. VEROMAA, AND P. TOIVANEN. 1987. Special features in the structural organization of the avian lymphoid system. Pp. 9–22 in A. Toivanen and P. Toivanen (editors). *Avian immunology: basis and practice*. Vol 1. CRC Press, Boca Raton, FL.
- EFRON, B., AND R. J. TIBSHIRANI. 1993. An introduction to the bootstrap. Chapman and Hall, New York, NY.
- EHRLICH, P. R., D. S. DOBBIN, AND D. WHEYER. 1992. Birds in jeopardy. Stanford University Press, Palo Alto, CA.
- ELDER, W. H. 1958. Preliminary report on the Nene in Hawaii. Ninth Annual Report Wildlife Trust:112–117. Slimbridge, UK.
- ELDER, W. H., AND D. H. WOODSIDE. 1958. Biology and management of the Hawaiian Goose. *Transactions of North American Wildlife Conference* 23: 198–215.
- ELLIS, W. 1917. Narrative of a tour through Owhyee: with remarks on history, traditions, manners, Hawaiian customs, and language of inhabitants of the Sandwich Islands. *Hawaiian Gazette* (reprint of London 1827 edition). Honolulu, HI.
- ELLIS, S., C. KUEHLER, R. LACY, K. HUGHES, AND U. S. SEAL. 1992a. Hawaiian forest birds: conservation assessment and management plan. Captive Breeding Specialist Group, IUCN-The World Conservation Union/Species Survival Commission. U.S. Fish and Wildlife Service, Honolulu, HI.
- ELLIS, S., C. KUEHLER, R. LACY, K. HUGHES, AND U. S. SEAL. 1992b. Alala, Akokohekohe and Palila population and habitat viability assessments reports. Captive Breeding Specialist Group, IUCN-The World Conservation Union/Species Survival Commission, U.S. Forest Service, Hilo, HI.
- ELY, C. A., AND R. B. CLAPP. 1973. The natural history of Laysan Island, Northwestern Hawaiian Islands. Atoll Research Bulletin No. 171.
- EMARA, M. G., K. E. NESTOR, AND L. D. BACON. 1993. The turkey major histocompatibility complex: characterization by mixed lymphocyte, graft versus host splenomegaly, and skin graft rejections. *Poultry Science* 72:60–66.
- ENGBRING, J. 1989. Fluctuations in bird populations on the island of Rota as related to an experimental program to control the Melon Fly. U.S. Fish and Wildlife Service, Honolulu, HI.
- ENGBRING, J. 1992. Surveys of forest birds of the Republic of Palau. U.S. Fish and Wildlife Service, Honolulu, HI.
- ENGBRING, J., F. L. RAMSEY, AND V. J. WILDMAN. 1986. Micronesian forest bird survey, 1982: Saipan, Tinian, Agiguan, and Rota. U.S. Fish and Wildlife Service, Honolulu, HI.
- ENGILIS, A., JR. 1988. Surveys and inventories of waterbirds in the State of Hawaii. Job Progress Report, Hawaii Division of Forestry and Wildlife, Honolulu, HI.
- ENGILIS, A., JR. 1990. Field notes on native forest birds in the Hanawi Natural Area Reserve, Maui. 'Elepaio 50:67–72.
- ENGILIS, A., JR., AND T. K. PRATT. 1989. Kauai forest bird survey yields surprises and disappointments. *Hawaii Wildlife Newsletter* 4:1,10.
- ENGILIS, A., JR., AND T. K. PRATT. 1993. Status and population trends of Hawaii's native waterbirds, 1977–1987. *Wilson Bulletin* 105:142–158.
- ENGILIS, A., JR., T. K. PRATT, C. B. KEPLER, A. M. ECTON, AND K. M. FLUETSCH. 1996. Description of adults, eggshells, nestling, fledgling, and nest of the Poo-uli. *Wilson Bulletin* 108:607–619.
- ERNST, C. H., R. W. BARBOUR, AND J. E. LOVICH. 1994. Turtles of the United States and Canada. Smithsonian Institution Press, Washington, D.C.
- ESCALANTE, A. A., AND F. J. AYALA. 1994. Phylogeny of the malarial genus *Plasmodium*, derived from

- rRNA gene sequences. *Proceedings of the National Academy of Sciences (USA)* 91:11373–11377.
- EVANS, G. C. 1972. The quantitative analysis of plant growth. University of California Press, Berkeley, CA.
- EWALD, P. W. 1994. Evolution of infectious disease. Oxford University Press, New York, NY.
- FAITH, D. P. 1992. Conservation evaluation and phylogenetic diversity. *Biological Conservation* 61:1–10.
- FAIRTHORNE, R. A. 1969. Empirical hyperbolic distributions (Bradford-Zipf-Mandelbrot) for bibliometric descriptions and predictions. *Journal Documentation* 25:521–534.
- FALANRUW, M. C., T. G. COLE, AND A. H. AMBACHER. 1989. Vegetation survey of Rota, Tinian, and Saipan, Commonwealth of the Northern Mariana Islands. USDA Forest Service, Resource Bulletin PSW-27.
- FALLA, R. A., R. B. SIBSON, AND E. G. TURBOTT. 1983. The new guide to the birds of New Zealand. Collins, Auckland, New Zealand.
- FALLS, J. B. 1981. Mapping territories with playback: an accurate census method for songbirds. *Studies in Avian Biology* 6:86–91.
- FANCY, S. G. 1997. A new approach for analyzing bird densities from variable circular-plot counts. *Pacific Science* 51:107–114.
- FANCY, S. G., J. D. JACOBI, T. K. PRATT, AND C. J. RALPH. 1994. Determining age and sex of 'Oma'o (*Myadestes obscurus*). *Elepaio* 54:25–27.
- FANCY, S. G., T. K. PRATT, G. D. LINDSEY, C. K. HARADA, A. H. PARENT, JR., AND J. D. JACOBI. 1993a. Identifying sex and age of Apapane and Iiwi on Hawaii. *Journal of Field Ornithology* 64:262–269.
- FANCY, S. G., AND C. J. RALPH. 1997. 'Apapane (*Himatione sanguinea*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 296. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- FANCY, S. G., AND C. J. RALPH. 1998. 'I'iwi (*Vestiaria coccinea*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 327. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- FANCY, S. G., T. J. SNETSINGER, AND J. D. JACOBI. 1997. Translocation of the Palila, an endangered Hawaiian honeycreeper. *Pacific Conservation Biology* 3:39–46.
- FANCY, S. G., R. T. SUGIHARA, J. J. JEFFREY, AND J. D. JACOBI. 1993b. Site tenacity of the endangered Palila. *Wilson Bulletin* 105:587–596.
- FEARE, C. J. 1984. Human exploitation. Pp. 691–700 in P. Croxall, P. G. H. Evans, and R. W. Schreiber (editors). *Status and conservation of the world's seabirds*. International Council for Bird Preservation No. 2. Cambridge, UK.
- FEHLING, H. J., W. SWAT, C. LAPLACE, R. KÜHN, K. RAJEWSKY, U. MÜLLER, AND H. VON BOEHMER. 1994. MHC class I expression in mice lacking the proteasome subunit LMP-7. *Science* 265:1234–1237.
- FELDMAN, R. A. 1994. Molecular evolution, genetic diversity and avian malaria in Hawaiian honeycreepers. Ph.D. dissertation. University of Hawaii, Honolulu, HI.
- FELDMAN, R. A., L. A. FREED, AND R. L. CANN. 1995. A PCR test for avian malaria in Hawaiian birds. *Molecular Ecology* 4:663–673.
- FELGER, I., L. TAVUL, AND H.-P. BECK. 1993. *Plasmodium falciparum*: a rapid technique for genotyping the merozoite surface protein 2. *Experimental Parasitology* 77:372–375.
- FELGER, I., L. TAVUL, S. KABINTIK, V. MARSHALL, B. GENTON, M. ALPERS, AND H.-P. BECK. 1994. *Plasmodium falciparum*: extensive polymorphism in merozoite surface antigen 2 alleles in an area with endemic malaria in Papua New Guinea. *Experimental Parasitology* 79:106–116.
- FELLERS, J. H., AND G. M. FELLERS. 1982. Status and distribution of ants in the Crater District of Haleakala National Park. *Pacific Science* 36:427–437.
- FELSENSTEIN, M. 1988. Phylogenies from molecular sequences: inference and reliability. *Annual Review of Genetics* 22:521–565.
- FESTA-BIANCHET, M. 1988. Seasonal range selection in bighorn sheep: conflicts between forage quality, forage quantity, and predator avoidance. *Oecologia* 75: 580–586.
- FILLON, V., R. ZOOROB, M. YERLE, C. AUFRAY, AND A. VIGNAL. 1996. Mapping of the genetically independent chicken major histocompatibility complexes B^e and RFP-Y^e to the same microchromosome by two-color fluorescent in situ hybridization. *Cytogenetics and Cell Genetics* 75:7–9.
- FISHER, H. 1972. The nutrition of birds. Pp. 431–469 in D. S. Farner, J. R. King, and K. C. Parkes (editors). *Avian Biology*. Vol. 2. Academic Press, New York, NY.
- FISHER, H. I. 1948a. The question of avian introductions in Hawaii. *Pacific Science* 2:59–64.
- FISHER, H. I. 1948b. Laysan Albatross nesting on Moku Manu islet, off Oahu. *Pacific Science* 2:66.
- FISHER, H. I. 1949. Populations of birds on Midway and the man-made factors affecting them. *Pacific Science* 3:103–110.
- FISHER, H. I. 1951. The avifauna of Niihau Island, Hawaiian Archipelago. *Condor* 67:31–42.
- FISHER, H. I. 1965. Bird records from Midway Atoll, Pacific Ocean. *Condor* 67:355–357.
- FISHER, H. I. 1967. Body weights in Laysan Albatrosses *Diomedea immutabilis*. *Ibis* 109:373–382.
- FISHER, H. I. 1968. The "two-egg clutch" in the Laysan Albatross. *Auk* 85:134–136.
- FISHER, H. I. 1969. Eggs and egg-laying in the Laysan Albatross, *Diomedea immutabilis*. *Condor* 71:102–112.
- FISHER, H. I., AND P. H. BALDWIN. 1945. A recent trip to Midway Islands, Pacific Ocean. *Elepaio* 6:11–13.
- FISHER, H. I., AND P. H. BALDWIN. 1946a. War and the birds of Midway Atoll. *Condor* 48:3–15.
- FISHER, H. I., AND P. H. BALDWIN. 1946b. War and the birds of Midway. *Paradise of the Pacific* 58:4–9.
- FISHER, H. I., AND P. H. BALDWIN. 1947. Notes on the Red-billed Leiothrix in Hawaii. *Pacific Science* 1: 45–51.
- FISHER, R. A. 1930. The genetical theory of natural selection. Oxford University Press, London, UK.
- FISHER, W. K. 1903. Notes on the birds peculiar to Laysan Island, Hawaiian Group. *Auk* 20:384–397.
- FITCH, H. S. 1985. Variation in clutch and litter size in

- New World reptiles. Miscellaneous Publications, University of Kansas Museum of Natural History 76:1–76.
- FLANNERY, T. 1995. Mammals of the southwest Pacific and Moluccan Islands. Cornell University Press, Ithaca, NY.
- FLEISCHER, R. C. 1998. Genetics and avian conservation. Pp. 29–47 in J. M. Marzluff and R. Sallabanks (editors). Avian conservation. Island Press, Washington, D.C.
- FLEISCHER, R. C., C. E. MCINTOSH, AND C. L. TARR. 1998. Evolution on a volcanic conveyor belt: using phylogeographic reconstructions and K-Ar-based ages of the Hawaiian Islands to estimate molecular evolutionary rates. *Molecular Ecology* 7:533–545.
- FLEISCHER, R. C., S. L. OLSEN, H. F. JAMES, AND A. C. COOPER. 2000. Identification of the extinct Hawaiian eagle (*Haliaeetus*) by mtDNA sequence analysis. *Auk* 117:1051–1056.
- FLEISCHER, R. C., C. L. TARR, AND T. K. PRATT. 1994. Genetic structure and mating system in the Palila, an endangered Hawaiian honeycreeper, as assessed by DNA fingerprinting. *Molecular Ecology* 3:383–392.
- FONSECA, D. M., C. T. ATKINSON, AND R. C. FLEISCHER. 1998. Microsatellite primers for *Culex pipiens quinquefasciatus*, the vector of avian malaria in Hawaii. *Molecular Ecology* 7:1617–1619.
- FORD, J. 1987. Hybrid zones in Australian birds. *Emu* 87:158–178.
- FORSHAW, J. M. 1977. Parrots of the world. T. F. H. Publications, Inc., Neptune, NJ.
- FORSMAN, E. D., E. C. MESLOW, AND H. M. WIGHT. 1984. Distribution and biology of the spotted owl in Oregon. *Wildlife Monographs* 87:1–64.
- FOSBERG, F. R. 1960. The vegetation of Micronesia. *Bulletin of American Museum Natural History* 119: 1–75.
- FOSBERG, F. R. 1966. Northern Marshall Islands land biota: birds. *Atoll Research Bulletin* 114:1–35.
- FOSTER, M. S. 1974. Rain, feeding behavior, and clutch size in tropical birds. *Auk* 91:722–726.
- FOSTER, M. S. 1975. The overlap of molting and breeding in some tropical birds. *Condor* 77:304–314.
- FOSTER, M. S. 1978. Total frugivory in tropical passerines: a reappraisal. *Tropical Ecology* 19:131–154.
- FOWLER, C. W. 1981. Density dependence as related to life history strategy. *Ecology* 62:602–610.
- FRANKHAM, R. 1995. Inbreeding and extinction: a threshold effect. *Conservation Biology* 9:792–799.
- FRANKIE, G. W., H. G. BAKER, AND P. A. OPLER. 1974. Comparative phenological studies of trees in tropical wet and dry forests in the lowlands of Costa Rica. *Journal of Ecology* 62:881–919.
- FRANKLIN, I. R. 1980. Evolutionary change in small populations. Pp. 135–149 in M. E. Soule' and B. A. Wilcox (editors.) *Conservation biology: an evolutionary-ecological perspective*. Sinauer Associates, Sunderland, MA.
- FRANKLIN, I. R., AND R. FRANKHAM. 1998. How large must populations be to retain evolutionary potential? *Animal Conservation* 1:69–73.
- FRANKLIN, J. F., K. CORMACK, JR., W. DENISON, A. W. MCKEE, C. MASER, J. SEDELL, F. SWANSON, AND G. JUDAY. 1981. Ecological characteristics of old-growth Douglas-fir forests. USDA Forest Service Gen. Tech. Rep. PNW:118. U. S. Forest Service, Portland, OR.
- FRANKLIN, J. F., F. HALL, W. LAUDENSLAYER, C. MASER, J. NUNAN, J. POPPINO, C. J. RALPH, AND T. SPIES. 1986. Interim definitions for old-growth Douglas-fir and mixed-conifer forests in the Pacific Northwest and California. USDA Forest Service Research Note PNW-447. USDA Forest Service, PNW Station, Portland, OR.
- FRANKLIN, J., AND D. W. STEADMAN. 1991. The potential for conservation of Polynesian birds through habitat mapping and species translocation. *Conservation Biology* 5:506–521.
- FRANKLIN, J. F., AND R. H. WARING. 1979. Distinctive features of the northwestern coniferous forest: development, structure, and function. Pp. 59–86 in R. H. Waring (editor). *Forests: fresh perspectives from ecosystem analysis*. Proceedings of the 40th Annual Biology Colloquium, Oregon State University Press, Corvallis, OR.
- FREED, L. A. 1999. Extinction and endangerment of Hawaiian honeycreepers: a comparative approach. Pp. 137–162 in L. F. Landweber and A. F. Dobson (editors). *Genetics and the extinction of species*. Princeton University Press, Princeton, NJ.
- FREED, L. A., AND R. L. CANN. 1989. An integrated conservation strategy for Hawaiian forest birds. *Bio-science* 39:475–476.
- FREED, L. A., S. CONANT, AND R. C. FLEISCHER. 1987a. Evolutionary ecology and radiation of Hawaiian passerine birds. *Trends in Ecology and Evolution* 2: 196–203.
- FREED, L. A., T. M. TELECKY, W. A. TYLER, III, AND M. A. KJARGAARD. 1987b. Nest-site variability in the 'Ākepa and other cavity-nesting forest birds on the island of Hawaii. *'Elepaio* 47:79–81.
- FREELAND, J. R., AND P. T. BOAG. 1999. Phylogenetics of Darwin's finches: Paraphyly in the tree-finches, and two divergent lineages in the Warbler Finch. *Auk* 116:577–588.
- FRENCH, N. R. 1959. Distribution and migration of the Black Rosy Finch. *Condor* 61:18–29.
- FRITTS, T. H. 1993. The common wolf snake, *Lycodon aulicus capucinus*, a recent colonist of Christmas Island in the Indian Ocean. *Wildlife Research* 20:261–266.
- FRITTS, T. H., M. J. MCCOID, AND R. L. HADDOCK. 1990. Risks to infants on Guam from the bites of the Brown Tree Snake (*Boiga irregularis*). *American Journal of Tropical Medicine and Hygiene* 42:607–611.
- FRITTS, T. H., N. J. SCOTT, JR., AND J. A. SAVIDGE. 1987. Activity of the arboreal Brown Tree Snake (*Boiga irregularis*) on Guam as determined from electrical outages. *Snake* 19:51–58.
- FUKUDA, T., T. GOTO, S. KITAOKA, AND H. TAKAMATSU. 1979. Experimental transmission of fowl pox by *Culicoides arakawae*. *National Institute Animal Health Quarterly* 19:104–105.
- FULLER, R. W. 1953. Studies in the life history and ecology of the American Pintail (*Anas acuta tzitzioha* Vieillot) in Utah. M.S. thesis. Utah State Agricultural College, Logan, UT.

- FURNESS, R. W. 1987. The skuas. T. and A. D. Poyser, Calton, UK.
- FURNESS, R. W. 1988. Predation on ground-nesting seabirds by island populations of red deer *Cervus elaphus* and sheep *Ovis*. *Journal of Zoology* 216:565–573.
- FURNESS, R. W., AND P. MONAGHAN. 1987. Seabird ecology. Blackie and Son, Ltd. London, UK.
- GADALLAH, F. L., AND R. L. JEFFERIES. 1995. Comparison of the nutrient contents of the principal forage plants utilized by Lesser Snow Geese on summer breeding grounds. *Journal of Applied Ecology* 32: 263–275.
- GADOW, H. 1899. Remarks on the structure of certain Hawaiian birds, with reference to their systematic position and Further remarks on the relationships of the Drepanidae. Pp. 219–249 in Wilson and Evans (1890–99) q. v.
- GAILLARD, J.-M., D. PONTIER, D. ALLAINÉ, J. D. LEBRETON, J. TROUVILLEZ, AND J. CLOBERT. 1989. An analysis of demographic tactics in birds and mammals. *Oikos* 56:59–76.
- GALLAGHER, M. D. 1958–1959. Bulletin of the Natural History Society of Christmas Island (annual summaries 1958–59). Vol. 2–9.
- GARDNER, D. E. 1997. *Botryosphaeria mamane* sp. Nov. associated with witches'-brooms on the endemic forest tree *Sophora chrysophylla* in Hawaii. *Mycologia* 89:298–303.
- GARDNER, L. L. 1925. The adaptive modifications and the taxonomic value of the tongue in birds. *Proceedings of the United States National Museum* 67: 1–49.
- GARNHAM, P. C. C. 1966. Malaria parasites and other haemosporina. Blackwell Scientific, Oxford, UK.
- GARRETT, L. E., AND F. H. HARAMOTO. 1967. A catalog of Hawaii Acarina. *Proceedings of the Hawaii Entomology Society* 19:381–414.
- GARRISON, J. 1999. Hawaii's forest birds: an inventory of research conducted 1992–1998. Secretariat for Conservation Biology and Department of Zoology, University of Hawai'i (<http://www2.hawaii.edu/scb/>).
- GARWOOD, N. C., D. P. JANOS, AND N. BROKAW. 1979. Earthquake-caused landslides: a major disturbance to tropical forests. *Science* 205:997–999.
- GAAS, C. L., AND R. D. MONTGOMERIE. 1981. Hummingbird foraging behavior: decision-making and energy regulation. Pp. 159–199 in A. C. Kamil and T. D. Sargent (editors). *Foraging ecology: ecological, ethological, and psychological approaches*. Garland STPM Press, New York, NY.
- GHOSH, S., AND F. S. COLLINS. 1996. The geneticist's approach to complex disease. *Annual Review of Medicine* 47:333–353.
- GIAMBELLUCA, T. W., M. A. NULLET, AND T. A. SCHROEDER. 1986. Rainfall atlas of Hawaii, Vol. 76. Hawaii Department of Land and Natural Resources, Honolulu, HI.
- GIBBONS, J., AND F. CLUNIE. 1986. Sea level changes and Pacific prehistory. *Journal of Pacific History* 21: 58–82.
- GIFFIN, J. G. 1976. Ecology of the feral sheep on Mauna Kea. Final report. Pittman-Robertson Project No. W-15-5, Study IX, 1972–1975. Hawaii State Department of Land and Natural Resources, Division of Fish and Game, Honolulu, HI.
- GIFFIN, J. G. 1978. Ecology of the feral pig on the island of Hawaii. Final Report. Pittman-Robertson Project W-15-3, Study II, 1968–1972. Hawaii State Department of Land and Natural Resources, Division of Fish and Game, Honolulu, HI.
- GIFFIN, J. G. 1982. Ecology of the mouflon sheep on Mauna Kea. Final report. Pittman-Robertson Project No. W-17-R, Study R-III, 1975–1979. Hawaii State Department of Land and Natural Resources, Division of Forestry, Honolulu, HI.
- GIFFIN, J. G. 1993. New species of fossil birds found at Pu'u Wa'awa'a. *'Elepaio* 53:1–3.
- GILBERT, S. C., M. PLEBANSKI, S. GUPTA, J. MORRIS, M. COX, M. AIDOO, D. KWIATKOWSKI, B. M. GREENWOOD, H. C. WHITTLE, AND A. V. S. HILL. 1998. Association of malaria parasite population structure, HLA, and immunological antagonism. *Science* 279: 1173–1177.
- GILLESPIE, R. G., AND N. REIMER. 1993. The effect of alien predatory ants (Hymenoptera: Formicidae) on Hawaiian endemic spiders (Araneae: Tetragnathidae). *Pacific Science* 47:21–33.
- GILPIN, M. E., AND M. E. SOUË. 1986. Minimum viable populations: processes of species extinctions. Pp. 19–34 in M. E. Soulé (editor). *Conservation biology: the science of scarcity and diversity*. Sinauer Associates, Sunderland, MA.
- GIVNISH, T. J., K. J. SYTSMA, J. F. SMITH, AND W. J. HAHN. 1995. Molecular evolution, adaptive radiation, and geographic speciation in *Cyanea* (Campanulaceae, Lobelioidae). Pp. 288–337 in W. L. Wagner and V. A. Funk (editors). *Hawaiian biogeography: evolution in a hotspot archipelago*. Smithsonian Institution Press, Washington, D.C.
- GLICK, B., T. S. CHANG, AND R. G. JAAP. 1956. The bursa of Fabricius and antibody production on the domestic fowl. *Poultry Science* 35:224.
- GLYNN, P. W. 1988. El Niño-Southern Oscillation 1982–1983: nearshore population, community, and ecosystem responses. *Annual Review of Ecology and Systematics* 19:309–345.
- GOFF, M. L. 1980. Mites (Thelicerata: Acari) parasitic on birds in Hawaii Volcanoes National Park. Technical Report 29. University of Hawaii Cooperative Studies Unit, University of Hawaii, Honolulu, HI.
- GOFF, M. L., AND C. VAN RIPER, III. 1980. Distribution of mosquitoes (Diptera: Culicidae) on the east flank of Mauna Loa Volcano, Hawaii. *Pacific Insects* 22: 178–188.
- GOOD, M. F., D. POMBO, I. A. QUAKYI, E. M. RILEY, R. A. HOUGHTEN, A. MENON, D. W. ALLING, J. A. BERZOFSKY, AND L. H. MILLER. 1988. Human T-cell recognition of the circumsporozoite protein of *Plasmodium falciparum*: immunodominant T-cell domains map to the polymorphic regions of the molecule. *Proceedings of the National Academy of Sciences (USA)* 85:1199–1203.
- GOODWIN, D. 1983. *Pigeons and doves of the world*. Cornell University Press, Ithaca, NY.
- GÖTMARK, F. 1992. The effects of investigator disturbance on nesting birds. *Current Ornithology* 9:63–104.
- GRANT, B. R., AND P. R. GRANT. 1989. Evolutionary

- dynamics of a natural population. University of Chicago Press, Chicago, IL.
- GRANT, P. R. 1986. Ecology and evolution of Darwin's finches. Princeton University Press, Princeton, NJ.
- GRANT, P. R. 1994. Population variation and hybridization: comparison of finches from two archipelagos. *Evolutionary Ecology* 8:598–617.
- GRANT, P. R., AND P. T. BOAG. 1980. Rainfall on the Galápagos and the demography of Darwin's finches. *Auk* 97:227–244.
- GRANT, P. R., AND B. R. GRANT. 1992. Demography and the genetically effective sizes of two populations of Darwin's finches. *Ecology* 73:766–784.
- GRAY, E. M., P. C. BANKO, S. J. DOUGILL, D. GOLTZ, L. JOHNSON, MEGAN E. LAUT, J. D. SEMONES, AND M. R. WILEY. 1999. 1998 Palila population census: Breeding and nonbreeding censuses of the 1998 Palila population on Mauna Kea, Hawai'i. *'Elepaio* 59: 33–39.
- GREEN, R. E. 1997. The influence of numbers released on the outcome of attempts to introduce exotic bird species to New Zealand. *Journal of Animal Ecology* 66:25–35.
- GREENBERG, R., P. J. CORDERO, S. DROEGE, AND R. C. FLEISCHER. 1998. Morphological adaptation with no mitochondrial DNA differentiation in the Coastal Plain Swamp Sparrow. *Auk* 115:706–712.
- GREENE, H. W. 1989. Ecological, evolutionary, and conservation implications of feeding biology in Old World cat snakes, genus *Boiga* (Colubridae). *Proceedings of the California Academy of Sciences* 46: 193–207.
- GREENSLADE, P. J. M. 1965. *Promecotheca opacicollis* Gestro (Coleoptera: Chrysomelidae) on the island of Tikopia. *Pacific Insects* 7:661–664.
- GREENWAY, J. C., JR. 1968. Family Drepanidae. Pp. 93–103 in Paynter, R. A., Editor, *Check-list of Birds of the World* Vol. 14. Museum Comp. Zoology, Cambridge, Ma.
- GREENWOOD, A. G., AND W. F. BLAKEMORE. 1973. Pox infection in falcons. *Veterinary Record* 93:468–470.
- GREENWOOD, J. J. D. 1997. Introduction: the diversity of taxonomies. *Bulletin of the British Ornithologists' Club* 117:85–96.
- GREENWOOD, P. J., AND P. H. HARVEY. 1982. The natal and breeding dispersal of birds. *Annual Review of Ecology and Systematics* 13:1–21.
- GRIFFIN, C. R., R. J. SHALLENBERGER, AND S. I. FEFER. 1989. Hawaii's endangered waterbirds: a resource management challenge. Pp. 1165–1175 in R. R. Sharitz and J. W. Gibbons (editors). *Proceedings Freshwater Wetlands and Wildlife Symposium*, Savannah River Ecology Lab, Aiken, GA.
- GRIFFIN, C. R., P. W. C. PATON, AND T. S. BASKETT. 1998. Breeding ecology and behavior of the Hawaiian Hawk. *Condor* 100:654–662.
- GRIFFITH, B., J. M. SCOTT, J. W. CARPENTER, AND C. REED. 1989. Translocation as a species conservation tool: status and strategy. *Science* 245:477–480.
- GRINNELL, J. 1911. The Linnet of the Hawaiian Islands: a problem in speciation. *University of California Publications in Zoology* 7:179–195.
- GRUE, C. E. 1985. Pesticides and the decline of Guam's native birds. *Nature* 316:301.
- GRUMBINE, R. E. 1997. Reflections on "What is ecosystem management?" *Conservation Biology* 11: 41–47.
- GUEST, S. J. 1973. A reproductive biology and natural history of the Japanese White-eye (*Zosterops japonicus japonica*) in urban Oahu. *Tech. Rept.* 29. University of Hawaii Islands Ecosystems, Honolulu, HI.
- GUINOTHER, E. 1983. Hydrological patterns and water quality of the Nu'uupia Ponds, Marine Corps Air Station, Kāne'ohe Bay, Island of O'ahu, Hawai'i. Prepared by AECOS, Inc., Kailua, HI.
- GUINOTHER, E. 1985. Biological surveys in the Nu'uupia Ponds Wildlife Management Area in association with the November 1984 opening of the Paakai/Kailua Bay Channel. Prepared by AECOS, Inc., Kailua, HI.
- GUSTAFSSON, L. 1988. Inter- and intraspecific competition for nest holes in a population of the collared flycatcher *Ficedula albicollis*. *Ibis* 130:11–16.
- GUSTAFSSON, L., D. NORDLING, M. S. ANDERSSON, B. C. SHELDON, AND A. QVARNSTRÖM. 1994. Infectious diseases, reproductive effort and the cost of reproduction in birds. *Philosophical Transactions of the Royal Society of London, Series B* 346:323–331.
- GUYNN, D. C., JR., R. L. DOWNING, AND G. R. ASKEW. 1985. Estimating the probability of non-detection of low density population. *Cryptozoolgy* 4:55–60.
- HAIG, S. M., AND J. C. AVISE. 1996. Avian conservation genetics. Chapter 6 in J. C. Avise and J. L. Hamrick (editors). *Conservation genetics: case histories from nature*. Chapman and Hall, New York, NY.
- HAIG, S. M., J. D. BALLOU, AND S. R. DERRICKSON. 1990. Management options for preserving genetic diversity: reintroduction of Guam Rails to the wild. *Conservation Biology* 4:290–300.
- HAINSWORTH, F. R. 1977. Foraging efficiency and parental care in *Colibri coruscans*. *Condor* 79:69–75.
- HALSE, S. A. 1978. Feeding habits of six species of honeyeater in south-western Australia. *Emu* 78:145–148.
- HAMILTON, L. S., J. O. JUVIK, AND F. N. SCATENA (EDITORS). 1995. *Ecological Studies*. Vol. 110. Tropical montane cloud forests. Springer-Verlag, New York, NY.
- HANDY, E. S. C., AND E. G. HANDY. 1972. Native planters in old Hawai'i: their life, lore, and environment. B. P. Bishop Museum Bulletin No. 233. Bishop Museum Press, Honolulu, HI.
- HANSEN, M. P., J. N. VAN ZANDT, AND G. R. L. LAW. 1967. Differences in susceptibility to Marek's disease in chickens carrying two different blood group alleles. *Poultry Science* 46:1268.
- HARDY, D. E. 1960. *Insects of Hawaii*. Vol. 10. Diptera: Nematocera-Brachycera. University of Hawaii Press, Honolulu, HI.
- HARPER, J. L. 1977. *Population biology of plants*. Academic Press, San Diego, CA.
- HARRIS, M. P. 1970. The biology of an endangered species, the Dark-rumped Petrel (*Pterodroma phaeopygia*), in the Galápagos Islands. *Condor* 72: 76–84.
- HARRISON, C. S. 1990. *Seabirds of Hawaii: natural history and conservation*. Cornell University Press, Ithaca, NY.
- HARTL, D. L., AND A. G. CLARK. 1989. *Principles of*

- population genetics. Sinauer Associates, Inc., Sunderland, MA.
- HASEGAWA, M. 1984. Status and conservation of seabirds in Japan, with special attention to the Short-tailed Albatross. Pp. 487–500 in J. P. Croxall, P. G. H. Evans, and R. W. Schreiber (editors). Status and conservation of the world's seabirds. International Council for Bird Preservation Technical Publication No. 2. Cambridge, UK.
- HASEGAWA, M., H. KISHINO, AND T. YANO. 1985. Dating of the human-ape splitting by a molecular clock of mitochondrial DNA. *Journal of Molecular Evolution* 22:160–174.
- HATFIELD, J. S., W. R. GOULD, IV, B. A. HOOVER, M. R. FULLER, AND E. L. LINDQUIST. 1996. Detecting trends in raptor counts: power and type I error rates of various statistical tests. *Wildlife Society Bulletin* 24:505–515.
- HAWAII AUDUBON SOCIETY. 1989. Hawaii's birds. 4th edition. Honolulu, HI.
- HAWAII STATE DEPARTMENT OF LAND AND NATURAL RESOURCES, U.S. FISH AND WILDLIFE SERVICE, AND THE NATURE CONSERVANCY OF HAWAII. 1992. Hawaii's extinction crisis: a call to action. Report circulated by Hawaii State Department of Land and Natural Resources, U.S. Fish and Wildlife Service, and The Nature Conservancy of Hawaii.
- HAZEOVET, C. J. 1995. The birds of the Cape Verde Islands. BOU Check-list No. 13.
- HAZEOVET, C. J. 1996. Conservation and species lists: taxonomic neglect promotes the extinction of endemic birds, as exemplified by taxa from eastern Atlantic islands. *Bird Conservation International* 6: 181–196.
- HAZLETT, R. W. 1993. Geological field guide, Kilauea Volcano. Hawaii Natural History Association, Hawaii National Park, HI.
- HEDRICK, P. W., W. KLITZ, W. P. ROBINSON, M. K. KUHNER, AND G. THOMSON. 1991. Population genetics of HLA. Pp. 248–271 in R. K. Selander, A. G. Clark, and T. S. Whittam (editors). Evolution at the molecular level. Sinauer Associates Inc., Sunderland, MA.
- HEITMEYER, M. E., D. P. CONNELLY, AND R. L. PEDERSON. 1989. The Central, Imperial, and Coachella valleys of California. Pp. 475–505 in L. M. Smith, R. L. Pederson, and R. M. Kaminski (editors). Habitat management for migrating and wintering waterfowl in North America. Texas Tech University Press, Lubbock, TX.
- HENNY, C. J. 1973. Drought displaced movement of North American Pintails into Siberia. *Journal of Wildlife Management* 37:23–29.
- HENRY, J., M.-T. RIBOUCHON, D. DEPETRIS, M.-G. MATTEI, C. OFFER, R. TAZI-AHNINI, AND P. PONTAROTTI. 1997. Cloning, structural analysis, and mapping of the B30 and B7 multigenic families to the major histocompatibility complex (MHC) and other chromosomal regions. *Immunogenetics* 46:383–395.
- HENSHAW, H. W. 1902a. Birds of the Hawaiian Islands, being a complete list of the birds of the Hawaiian possessions with notes on their habits. Thos. G. Thrum, Honolulu, HI.
- HENSHAW, H. W. 1902b. The Elepaio of Hawaii. *Auk* 19:221–232.
- HERBERT, D. A., J. H. FOWNES, AND P. M. VITOUSEK. 1999. Hurricane damage to a Hawaiian forest nutrient supply rate affects resistance and resilience. *Ecology* 80:908–920.
- HERRMANN, C. M., AND T. J. SNETSINGER. 1997. Pox-like lesions on endangered Puaoihi (*Myadestes palmeri*) and occurrence of mosquito (*Culex quinquefasciatus*) populations near Koae Stream. *'Elepaio* 57:73–75.
- HESS, S. C., P. C. BANKO, G. J. BRENNER, AND J. D. JACOBI. 1999. Factors related to the recovery of subalpine woodland on Mauna Kea, Hawaii. *Biotropica* 31:212–219.
- HESTBECK, J. B. 1995. Response of Northern Pintail breeding populations to drought, 1961–92. *Journal of Wildlife Management* 59:9–15.
- HESTBECK, J. B. 1996. Northern Pintails: have the paradigms changed? Pp. 45–49 in J. T. Ratti (editor). 7th International Wildlife Symposium. Ducks Unlimited, Memphis, TN.
- HILL, A. V. S. 1996. Genetic susceptibility to malaria and other infectious diseases: from MHC to the whole genome. *Symposia of the British Society of Parasitology* 33:S75–S84.
- HILL, A. V. S., C. E. M. ALLSOPP, D. KWIATKOWSKI, N. M. ANSTEY, P. TWUMASI, P. A. ROWE, S. BENNETT, D. BREWSTER, A. J. McMICHAEL, AND B. M. GREENWOOD. 1991. Common West African HLA antigens are associated with protection from severe malaria. *Nature* 352:595–600.
- HILL, A. V. S., AND D. J. WEATHERALL. 1998. Host genetic factors in resistance to malaria. Pp. 445–455 in I. W. Sherman (editor). *Malaria: parasite biology, pathogenesis, and protection*. ASM Press, Washington, D.C.
- HILL, A. V. S., S. N. R. YATES, C. E. M. ALLSOPP, S. GUPTA, S. C. GILBERT, A. LALVANI, M. AIDOO, M. DAVENPORT, AND M. PLEBANSKI. 1994. Human leucocyte antigens and natural selection by malaria. *Philosophical Transactions of the Royal Society of London, Series B* 346:379–385.
- HILL, M. O. 1979. TWINSPLAN—A FORTRAN program for arranging multivariate data in an ordered two-way table by classification of the individuals and attributes. Cornell University, Ithaca, NY.
- HILLIS, D. M., B. K. MABLE, AND C. MORITZ. 1996. Applications of molecular systematics: the state of the field and a look to the future. Pp. 515–543 in D. M. Hillis, C. Moritz, and B. K. Mable (editors). *Molecular systematics*. 2nd edition. Sinauer Associates, Sunderland, MA.
- HINDWOOD, K. A. 1940. The birds of Lord Howe Island. *Emu* 40:1–86.
- HINES, J. E., AND J. R. SAUER. 1989. Program CONTRAST—a general program for the analysis of several survival or recovery rate estimates. Patuxent Wildlife Research Center, USFWS Research Publication No. 24.
- HIRAI, L. T. 1975a. The Hawaiian House Finch. *'Elepaio* 36:1–5.
- HIRAI, L. T. 1975b. The nesting biology of the House Finch in Honolulu, Hawaii. *Western Birds* 6:33–44.
- HIRAI, L. T. 1978. Native birds of Lanai, Hawaii. *Western Birds* 9:71–77.
- HOBBS, R. J., AND S. E. HUMPHRIES. 1995. An inte-

- grated approach to the ecology and management of plant invasions. *Conservation Biology* 9:761–770.
- HODGES, C. S. N. 1994. Effects of management on the survival and breeding success of the endangered Hawaiian Dark-rumped Petrel (*Pterodroma phaeopygia sandwichensis*). M.S. thesis. University of Washington, Seattle, WA.
- HÖLLODNER, B., AND E. O. WILSON. 1994. Journey to the ants. Harvard University Press, Cambridge, MA.
- HOLMES, R. T. 1990. Ecological and evolutionary impacts of bird predation on forest insects: an overview. *Studies in Avian Biology* 13:6–13.
- HOLT, A. 1996. An alliance of biodiversity, health, agriculture, and business interests for improved alien species management in Hawaii. Pp. 155–160 in O. T. Sandlund, P. J. Schei, and A. Viken (editors). 1996. Proceedings of the Norway/UN Conference on Alien Species. Directorate for Nature Management and Norwegian Institute for Nature Research, Trondheim, Norway.
- HOLT, R. A., AND B. FOX. 1985. Protection status of the native Hawaiian biota. Pp. 127–141 in C. P. Stone and J. M. Scott (editors). 1985. Hawai'i's terrestrial ecosystems: preservation and management. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- HOOPER, L. M. 1995. The biology of the Southern Fire ant, *Solenopsis xyloni* (McCook) and its predation of the California Least Tern, *Sterna antillarum brownii* (Mearns). M.S. thesis. University of California Riverside, CA.
- HOWARTH, F. G. 1985a. Impacts of alien land arthropods and mollusks on native plants and animals in Hawai'i. Pp. 149–179 in C. P. Stone and J. M. Scott (editors). Hawai'i's terrestrial ecosystems: preservation and management. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- HOWARTH, F. G. 1985b. Biosystematics of the *Culicoides* of Laos (Diptera: Ceratopogonidae). *Pacific Insects* 27:1–96.
- HOWARTH, F. G., AND W. P. MULL. 1992. Hawaiian Insects and their kin. University of Hawaii Press, Honolulu, HI.
- HOWARTH, F. G., AND G. W. RAMSAY. 1991. The conservation of island insects and their habitats. Pp. 71–107 in N. M. Collins and J. A. Thomas (editors). The conservation of insects and their habitats. Academic Press, New York, NY.
- HOWARTH, F. G., S. H. SOHMER, AND W. D. DUCKWORTH. 1988. Hawaiian natural history and conservation efforts: what's left is worth saving. *BioScience* 38:232–237.
- HOWE, R. W., G. J. DAVIS, AND V. MOSCA. 1991. The demographic significance of 'sink' populations. *Biological Conservation* 57:239–255.
- HOWELL, T. R. 1952. Natural history and differentiation in the Yellow-bellied Sapsucker. *Condor* 54:237–282.
- HUBBARD, J. P. 1977. The biological and taxonomic status of the Mexican Duck. *Bulletin New Mexico Department Game and Fish*. No. 16. New Mexico Department Game and Fish, Albuquerque, NM.
- HUBER, L. N. 1966. Alaka'i Swamp, Kauai, March 1965. *Elepaio* 26:71.
- HUDDLESTON, E. W., AND S. S. FLUKER. 1968. Distribution of ant species in Hawaii. *Proceedings of the Hawaiian Entomological Society* 20:45–69.
- HUDSON, P. J. 1985. Population parameters for the Atlantic alcidae. Pp. 233–261 in D. N. Nettleship and T. R. Birkhead (editors). *The Atlantic alcidae*. Academic Press, New York, NY.
- HUDSON, P. J. 1986. The effect of a parasitic nematode on the breeding production of Red Grouse. *Journal of Animal Ecology* 55:85–92.
- HUFF, C. G. 1969. Exoerythrocytic stages of avian and reptilian malarial parasites. *Experimental Parasitology* 24:383–421.
- HUGHES, A. L., AND M. NEI. 1988. Pattern of nucleotide substitution at major histocompatibility complex class I loci reveals overdominant selection. *Nature* 335:167–170.
- HUGHES, A. L., AND M. NEI. 1992. Maintenance of MHC polymorphism. *Nature* 355:402–403.
- HUGHES, F., P. M. VITOUSEK, AND T. TUNISON. 1991. Alien grass invasion and fire in the seasonal submontane zone of Hawai'i. *Ecology* 72:743–746.
- HUGHES, M. K., AND A. L. HUGHES. 1995. Natural selection on *Plasmodium* surface proteins. *Molecular and Biochemical Parasitology* 71:99–113.
- HULIER, E., P. PETOUR, G. SNOOUNOU, M. P. NIVEZ, F. MILTGEN, D. MAZIER, AND L. RENIA. 1996. A method for the quantitative assessment of malaria parasite development in organs of the mammalian host. *Molecular and Biochemical Parasitology* 77:127–135.
- HUMAR, A., C. OHRT, M. A. HARRINGTON, D. PILLAI, AND K. C. KAIN. 1997. Parasight® F test compared with the polymerase chain reaction and microscopy for the diagnosis of *Plasmodium falciparum* malaria in travellers. *American Journal of Tropical Medicine and Hygiene* 56:44–48.
- HUNT, J. A., AND H. L. CARSON. 1983. Evolutionary relationships of four species of Hawaiian *Drosophila* as measured by DNA reassociation. *Genetics* 104: 353–364.
- HUTCHINS, M., AND W. G. CONWAY. 1995. Beyond Noah's Ark: the evolving role of modern zoos and aquariums in field conservation. *International Zoo Yearbook* 34:117–130.
- HUTCHINS, M., K. WILLIS, AND R. J. WIESE. 1995. Authors' response. *Zoo Biology* 14:67–80.
- HUTTER, K., H. BLATTER, AND A. OHMURA. 1990. Climate changes, ice sheet dynamics, and sea level variations. *Geographic Institute of Zurich*. Vol. 37.
- INGLIS, I. R. 1977. The breeding behaviour of the Pink-footed Goose: behavioural correlates of nesting success. *Animal Behaviour* 25:747–764.
- INNES, J. G., B. WARBURTON, D. WILLIAMS, H. SPEED, AND P. BRADFIELD. 1995. Large-scale poisoning of ship rats (*Rattus rattus*) in indigenous forests of the North Island, New Zealand. *New Zealand Journal of Ecology* 19:5–17.
- IRWIN, D. M., T. D. KOCHER, AND A. C. WILSON. 1991. Evolution of the cytochrome B gene of mammals. *Journal of Molecular Evolution* 32:128–144.

- JACOBI, J. D. 1978. Vegetation map of the Kau Forest Reserve and adjacent lands of Hawaii. US Forest Service Research Bulletin PSW-16. Honolulu, HI.
- JACOBI, J. D. 1989. Vegetation maps of the upland plant communities on the islands of Hawai'i, Maui, Moloka'i, and Lana'i. Technical Report 68. Cooperative National Parks Studies Unit, University of Hawaii, Honolulu, HI.
- JACOBI, J. D. 1993. Distribution and dynamics of *Metrosideros* dieback on the island of Hawaii: implications for management programs. Pp. 236–242 in O. Huettl and D. Mueller-Dombois (editors). Forest decline in the Atlantic and Pacific region. Springer-Verlag, Berlin, Germany.
- JACOBI, J. D., AND C. T. ATKINSON. 1995. Hawaii's endemic birds. Pp. 376–381 in E. T. LaRoe, G. S. Farris, C. E. Puckett, P. D. Doran, and M. J. Mac (editors). Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems. U.S. Department of the Interior, National Biological Service, Washington, D.C.
- JACOBI, J. D., S. G. FANCY, J. G. GIFFIN, AND J. M. SCOTT. 1996. Long-term population variability in the Palila, an endangered Hawaiian honeycreeper. *Pacific Science* 50:363–370.
- JACOBI, J. D., G. GERRISH, D. MUELLER-DOMBOIS, AND L. WHITEAKER. 1988. Stand-level dieback and *Metrosideros* regeneration in the montane rain forest of Hawaii. *Geojournal* 17:193–200.
- JACOBI, J. D., M. H. REYNOLDS, B. M. NIELSEN, J. K. DWYER, AND A. VIGLIANO. 1994. Surveys on the distribution and abundance of forest birds in the vicinity of proposed geothermal project subzones in the District of Puna, Hawaii. USFWS Report. Hawaii Geothermal Project Environmental Impact Statement, U.S. Department of Energy, Oak Ridge, TN.
- JACOBI, J. D., AND J. M. SCOTT. 1985. An assessment of the current status of native upland habitats and associated endangered species on the Island of Hawai'i. Pp. 3–22 in C. P. Stone and J. M. Scott (editors). Hawai'i's terrestrial ecosystems: preservation and management. Cooperative National Parks Research Studies Unit, University of Hawaii Press, Honolulu, HI.
- JAMES, F. C. 1991. Signs of trouble in the largest remaining population of Red-cockaded Woodpeckers. *Auk* 108:419–423.
- JAMES, F. C. 1997. Nonindigenous birds. Pp. 139–156 in D. Simberloff, D. C. Schmitz, and T. C. Brown (editors). Strangers in paradise: impact and management of nonindigenous species in Florida. Island Press, Washington, D.C.
- JAMES, F. C., AND H. H. SHUGART. 1970. A quantitative method of habitat description. *Audubon Field Notes* 24:727–736.
- JAMES, H. F. 1987. A late Pleistocene avifauna from the island of Oahu, Hawaiian Islands. *Documents des Laboratoires de Géologie de la Faculté des Sciences de Lyon* 99:221–230.
- JAMES, H. F. 1991. The contribution of fossils to knowledge of Hawaiian birds. *Acta XX Congressus Internationalis Ornithologici* 1:420–424.
- JAMES, H. F. 1998. Historical perspectives on the evolution and ecology of Hawaiian birds. Part I. Phylogeny of the Hawaiian finches (Fringillidae: Drepanidini). Part II. Paleoecology of terrestrial communities. Ph.D. dissertation. Oxford University, Oxford, UK.
- JAMES, H. F., AND S. L. OLSON. 1991. Descriptions of thirty-two new species of birds from the Hawaiian Islands. Part II. Passeriformes. *Ornithological Monographs* 46:1–88.
- JAMES, H. F., T. W. STAFFORD JR., D. W. STEADMAN, S. L. OLSON, P. S. MARTIN, A. J. T. JULL, AND P. C. MCCOY. 1987. Radiocarbon dates on bones of extinct birds from Hawaii. *Proceedings of the National Academy of Sciences (USA)* 84:2350–2354.
- JAMNBACK, H. 1965. The *Culicoides* of New York State (Diptera: Ceratopogonidae). *New York State Museum Bulletin* No. 399. Albany, NY.
- JANACEK, L. L., R. L. HONEYCUTT, R. M. ADKINS, AND S. K. DAVIS. 1996. Mitochondrial gene sequences and molecular systematics of the Artiodactyl subfamily Bovidae. *Molecular Phylogenetics and Evolution* 6:107–119.
- JANZEN, D. H., W. HALLWACHS, J. JIMENEZ, AND R. GÁMEZ. 1993. The role of the parataxonomists, inventory managers, and taxonomists in Costa Rica's National Biodiversity Inventory. Pp. 223–254 in W. V. Reid, S. A. Laird, C. A. Meyer, R. Gámez, A. Sittenfeld, D. H. Janzen, M. A. Hollin, and C. Juma (editors). Biodiversity prospecting: using genetic resources for sustainable development. World Resources Institute, Washington, D.C.
- JARVI, S. I., AND W. E. BRILES. 1992. Identification of the major histocompatibility complex in the Ring-necked Pheasant, *Phasianus colchicus*. *Animal Genetics* 23:211–220.
- JARVI, S. I., G. F. GEE, M. M. MILLER, AND W. E. BRILES. 1995. A complex alloantigen system in Florida sandhill cranes, *Grus canadensis pratensis*: evidence for the major histocompatibility (B) system. *Journal of Heredity* 86:348–353.
- JARVI, S. I., R. M. GOTO, W. E. BRILES, AND M. M. MILLER. 1996. Characterization of Mhc genes in a multigenerational family of Ring-necked Pheasants. *Immunogenetics* 43:125–135.
- JARVI, S. I., R. M. GOTO, G. F. GEE, W. E. BRILES, AND M. M. MILLER. 1999. Identification, inheritance, and linkage of B-G-like and Mhc class I genes in cranes. *Journal of Heredity* 90:152–159.
- JEFFREY, J. J., S. G. FANCY, G. D. LINDSEY, P. C. BANCO, T. K. PRATT, AND J. D. JACOBI. 1993. Sex and age identification of Palila. *Journal of Field Ornithology* 64:490–499.
- JEHL, J. R., AND K. C. PARKES. 1982. The status of the avifauna of the Revillagigedo Islands, Mexico. *Wilson Bulletin* 94:1–19.
- JENKINS, C. D., S. A. TEMPLE, C. VAN RIPER, III, AND W. R. HANSEN. 1989. Disease-related aspects of conserving the endangered Hawaiian Crow. *International Council for Bird Preservation Technical Publication* 10:77–87.
- JENKINS, J. M. 1983. The native forest birds of Guam. *Ornithological Monographs* 31:1–61.
- JENKINS, P. 1996. Free trade and exotic species introductions. Pp. 145–147 in O. T. Sandlund, P. J. Schei, and A. Viken (editors). 1996. *Proceedings of the Norway/UN Conference on Alien Species*. Director-

- ate for Nature Management and Norwegian Institute for Nature Research, Trondheim, Norway.
- JOHNSGARD, P. A. 1961. Evolutionary relationships among the North American Mallards. *Auk* 78:3–43.
- JOHNSGARD, P. A. 1967. Sympatry changes and hybridization incidence in Mallards and Black Ducks. *American Midland Naturalist* 77:51–63.
- JOHNSGARD, P. A. 1978. Ducks, geese and swans of the world. University of Nebraska Press, Lincoln, NE.
- JOHNSON, D. H. 1979. Estimating nest success: the Mayfield method and an alternative. *Auk* 96:651–661.
- JOHNSON, D. H. 1995. Point counts of birds: What are we estimating? Pp. 117–123 in C. J. Ralph, J. Sauer, and S. Droege (editors). Monitoring bird populations by point counts. General Technical Report PSW-GTR-149. USDA Forest Service, Albany, CA.
- JOHNSON, D. H., AND A. B. SARGEANT. 1977. Impact of red fox predation on the sex ratio of prairie Mallards. *Wildlife Report* 6. U.S. Fish and Wildlife Service, Washington, D.C.
- JOHNSON, K. P., AND M. D. SORENSEN. 1998. Comparing molecular evolution in two mitochondrial protein coding genes (Cytochrome b and ND2) in the dabbling ducks (Tribe: Anatini). *Molecular Phylogenetics and Evolution* 10:82–94.
- JOHNSON, N. K., J. A. MARTEN, AND C. J. RALPH. 1989. Genetic evidence for the origin and relationships of Hawaiian honeycreepers (Aves: Fringillidae). *Condor* 91:379–396.
- JOHNSON, O. W., AND P. M. JOHNSON. 1993. Counts of Pacific Golden-plovers (*Pluvialis fulva*) wintering on O'ahu golf courses, 1992. *'Elepaio* 53:39–43.
- JOHNSON, R. R., B. T. BROWN, L. T. HAIGHT, AND J. M. SIMPSON. 1981. Playback recordings as a special avian censusing technique. *Studies in Avian Biology* 6: 68–75.
- JOHNSON, T. C., C. A. SCHOLZ, M. R. TALBOT, K. KELTS, R. D. RICKETTS, G. NGOBI, K. BEUNING, I. SSEMMANDA, AND J. W. MCGILL. 1996. Late Pleistocene desiccation of Lake Victoria and rapid evolution of cichlid fishes. *Science* 273:1091–1093.
- JOHNSTON, J. P., W. J. PEACH, R. D. GREGORY, AND S. A. WHITE. 1997. Survival rates of tropical and temperate passerines: a Trinidadian perspective. *American Naturalist* 150:771–789.
- JOHNSTON, R. F., AND R. K. SELANDER. 1964. House Sparrows: rapid evolution of races in North America. *Science* 144:548–550.
- JOHNSTONE, G. W. 1985. Threats to birds on subantarctic islands. Pp. 101–121 in P. J. Moors (editor). *Conservation of island birds*. International Council for Bird Preservation Technical Publication No. 3. Cambridge, UK.
- JUDD, C. S. 1936. Hawaii's forests winning their battle with wild animals. *Honolulu Star Bulletin* March 21 3rd section. Pp. 1, 7.
- JUVIK, J. O., AND A. P. AUSTRING. 1979. The Hawaiian avifauna: biogeographic theory in evolutionary time. *Journal of Biogeography* 6:205–224.
- JUVIK, J. O., AND S. P. JUVIK. 1984. Mauna Kea and the myth of multiple use: endangered species and mountain management in Hawaii. *Mountain Research and Development* 4:191–202.
- JUVIK, J. O., AND D. NULLET. 1993. Relationships between rainfall, cloud-water interception, and canopy throughfall in a Hawaiian montane forest. Pp. 102–113 in L. S. Hamilton, J. O. Juvik, and F. N. Scatena (editors). *Tropical montane cloud forests*. East-West Center, Honolulu, HI.
- JUVIK, J. O., D. NULLET, P. BANKO, AND K. HUGHES. 1993. Forest climatology near the tree line in Hawaii. *Agricultural and Forest Meteorology* 66:159–172.
- KAHIOLO, G. W. 1863. Ka Nupepa kuokoa. H.M. Whitney 1861–1891, Honolulu, Hawaii
- KAIN, K. C., A. E. BROWN, L. MIRABELLI, AND H. K. WEBSTER. 1993. Detection of *Plasmodium vivax* by polymerase chain reaction in a field study. *Journal of Infectious Diseases* 168:1323–1326.
- KAISSER, H. 1992. The trade-mediated introduction of *Eleutherodactylus martinicensis* (Anura: Leptodactylidae) on St. Barthélémy, French Antilles, and its implications for Lesser Antillean biogeography. *Journal of Herpetology* 26:264–273.
- KAKESAKO, G. K. 1997. Hawaiians, Marines win with construction of walls. *Honolulu Star-Bulletin*, February 21:A-6.
- KAMI, H. T. 1964. Foods of the mongoose on the Hamakua Coast. *Zoonoses Research* 3:165–170.
- KANEOHE BAY TASK FORCE. 1997. Kaneohe Bay Regional Council evaluation, a report to the Nineteenth Legislature of the State of Hawaii regular session of 1988. Office of Planning, State of Hawaii, Honolulu, HI.
- KARL, B. J., AND H. A. BEST. 1982. Feral cats on Stewart Island, their foods and their effects on kakapo. *New Zealand Journal of Zoology* 9:287–294.
- KARR, J. R., J. D. NICHOLS, M. K. KLIMKIEWICZ, AND J. D. BROWN. 1990. Survival rates of birds of tropical and temperate forests: will the dogma survive? *American Naturalist* 136:277–291.
- KARR, J. R., AND R. R. ROTH. 1971. Vegetation structure and avian diversity in several New World areas. *American Naturalist* 105:423–435.
- KARSTAD, L. 1971a. Arboviruses. Pp. 17–21 in J. W. Davis, R. C. Anderson, L. Karstad, and D. O. Trainer (editors). *Infections and parasitic diseases of wild birds*. Iowa State University Press, Ames, IA.
- KARSTAD, L. 1971b. Pox. Pp. 34–41 in J. W. Davis, R. C. Anderson, L. Karstad, and D. O. Trainer (editors). *Infections and parasitic diseases of wild birds*. Iowa State University Press, Ames, IA.
- KATAHIRA, L. K., P. FINNEGAR, AND C. P. STONE. 1993. Eradicating pigs in montane mesic habitat at Hawaii Volcanoes National Park. *Wildlife Society Bulletin* 21:269–274.
- KAUAIKAUA, J., S. MARGRITER, J. LOCKWOOD, AND F. TRUSDELL. 1995. Applications of GIS to the estimation of lava flow hazards on Mauna Loa Volcano, Hawaii. Pp. 315–325 in J. M. Rhodes and J. P. Lockwood (editors). *Mauna Loa revealed: structure, composition, history, and hazards*. Geophysical Monograph 92. American Geophysical Union, Washington, D.C.
- KAUFMAN, J., S. MILNE, T. W. F. GÖBEL, B. A. WALKER, J. P. JACOB, C. AUFFRAY, R. ZOOROB, AND S. BECK. 1999. The chicken *B* locus is a minimal essential major histocompatibility complex. *Nature* 401:923–925.

- KAUFMAN, J., AND H. J. WALLNEY. 1996. Chicken MHC molecules, disease resistance and the evolutionary origin of birds. *Current Topics in Microbiology and Immunology* 212:129–141.
- KEAR, J., AND A. J. BERGER. 1980. *The Hawaiian Goose: an experiment in conservation*. Buteo Books, Vermillion, SD.
- KEEPER OF THE NATIONAL REGISTER. 1984. Determination of eligibility notification, Mōkāpu Peninsula Fishpond Complex (Nu'upia Ponds). Prepared by Keeper of the National Register, National Park Service, August 8, 1984.
- KEMP, R. L., AND W. T. SPRINGER. 1978. *Histomoniasis*. Pp. 832–840 in M. S. Hofstad, B. W. Calnek, C. F. Helmboldt, W. M. Reid, and H. W. Yoder, Jr. (editors). *Diseases of Poultry*. Iowa State University Press, Ames, IA.
- KENNEDY, E. D. 1991. Predicting clutch size of the House Wren with the Murray-Nolan equation. *Auk* 108:728–731.
- KENT, J. A., AND K. PREISTER. 1997. Social ecology: a new pathway to ecosystem restoration. Pp. 28–48 in J. E. Williams, C. A. Wood, and M. P. Dombeck (editors). *Watershed restoration: principles and practices*. American Fisheries Society, Bethesda, MD.
- KEPLER, C. B. 1967. Polynesian rat predation on nesting Laysan Albatross and other Pacific seabirds. *Auk* 84: 426–430.
- KEPLER, C. B. 1985. Current and future roles of agencies, conservation groups, legislature, and the public in preserving and managing Hawaiian ecosystems: a summary. Pp. 483–492 in C. P. Stone and J. M. Scott (editors). *Hawai'i's terrestrial ecosystems: preservation and management*. Cooperative National Parks Research Studies Unit, University of Hawaii, Honolulu, HI.
- KEPLER, C. B., AND A. K. KEPLER. 1983. A first record of nest and chicks of the Small Kauai Thrush. *Condor* 85:497–499.
- KEPLER, C. B., T. K. PRATT, A. M. ECTON, A. ENGILIS, JR., AND K. M. FLUETSCH. 1996. Nesting behavior of the Poo-uli. *Wilson Bulletin* 108:620–638.
- KEPLER, C. B., AND J. M. SCOTT. 1981. Reducing count variability by training observers. *Studies in Avian Biology* 6:366–371.
- KETTLE, D. S. 1965. Biting ceratopogonids as vectors of human and animal diseases. *Acta Tropica* 22:356–362.
- KHOO, A., T. FURUTA, N. R. ABDULLAH, N. A. BAH, S. KOJIMA, AND W. J. WAH. 1996. Nested polymerase chain reaction for detection of *Plasmodium falciparum* infection in Malaysia. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 90:40–41.
- KIKKAWA, J. 1977. Ecological paradoxes. *Australian Journal of Ecology* 2:121–136.
- KIMURA, M. 1980. A simple method for estimating evolutionary rates of base substitution through comparative studies of nucleotide sequences. *Journal of Molecular Evolution* 16:111–120.
- KING, W. B. 1984. Incidental mortality of seabirds in gillnets in the North Pacific. Pp. 709–716 in J. P. Croxall, P. G. H. Evans, and R. W. Schreiber (editors). *Status and conservation of the world's seabirds*. International Council for Bird Preservation Technical Publication No. 2. Cambridge, UK.
- KING, W. B. 1985. Island birds: will the future repeat the past? Pp. 3–15 in P. J. Moors (editor). *Conservation of island birds*. International Council for Bird Preservation Technical Publication No. 3. Cambridge, UK.
- KING, W. B., AND P. J. GOULD. 1967. The status of Newell's race of the Manx Shearwater. *Living Bird* 6:163–186.
- KIRCH, J. F. 1913. The indigenous trees of the Hawaiian Islands. Published Privately, Honolulu, HI.
- KIRCH, P. V. 1974. The chronology of early Hawaiian settlement. *Archaeology and Physical Anthropology in Oceania* 9:110–119.
- KIRCH, P. V. 1979. Marine exploitation in prehistoric Hawaii: archaeological investigations at Kalahuipua'a, Hawaii Island. *Pacific Anthropological Records* No. 29. Department of Anthropology, B. P. Bishop Museum, Honolulu, HI.
- KIRCH, P. V. 1982a. The impact of the prehistoric Polynesians on the Hawaiian ecosystem. *Pacific Science* 36:1–14.
- KIRCH, P. V. 1982b. Advances in Polynesia in prehistory: three decades in review. *Advance in World Archaeology* 1:51–97.
- KIRCH, P. V. 1985. *Feathered gods and fishhooks: an introduction to Hawaiian archaeology and prehistory*. University of Hawaii Press, Honolulu, HI.
- KIRCH, P. V., AND T. L. HUNT. 1997. *Historical ecology in the Pacific Islands: prehistoric environmental and landscape change*. Yale University Press, New Haven, CT.
- KIRCH, P. V., AND M. KELLY (EDITORS). 1975. *Prehistory and ecology in a windward Hawaiian valley: Halawa Valley, Molokai*. Pacific Anthropological Records 24. Department of Anthropology, B. P. Bishop Museum, Honolulu, HI.
- KIRCH, P. V., D. W. STEADMAN, V. L. BUTLER, J. HATHER, AND M. I. WEISLER. 1995. Pre-history and human ecology in Eastern Polynesia: excavations at Tangatau Rockshelter, Mangaia, Cook Islands. *Archaeological Oceania* 30:47–65.
- KIRMSE, P. 1967. Host specificity and long persistence of pox infection in the flicker (*Colaptes auratus*). *Journal of Wildlife Diseases* 3:14–20.
- KITAOKA, S. 1978. Serological diagnosis of chicken leucocytozoonosis. *Japanese Agricultural Research Quarterly* 12:157–162.
- KITAOKA, S., AND T. MORII. 1963. Observations on the breeding habitats of some biting midges and seasonal population dynamics in the life cycle of *Culicoides arakawae* in Tokyo and its vicinity. *National Institute of Animal Health Quarterly* 3:198–208.
- KITAYAMA, K., AND D. MUELLER-DOMBOIS. 1992. Vegetation of the wet windward slope of Haleakala, Maui, Hawaii. *Pacific Science* 46:197–220.
- KLEIN, J. 1986. *Natural history of the major histocompatibility complex*. John Wiley and Sons, New York, NY.
- KLEIN, J., AND C. O'HUIGIN. 1994. MHC polymorphism and parasites. *Philosophical Transactions of the Royal Society of London, Series B* 346:351–358.
- KLICKA, J., AND R. M. ZINK. 1997. The importance of

- recent ice ages in speciation: a failed paradigm. *Science* 277:1666–1669.
- KLOMP, H. 1970. The determination of clutch-size in birds: a review. *Ardea* 58:1–124.
- KLOMP, H. 1980. Fluctuations and stability in Great Tit populations. *Ardea* 68:205–224.
- KOCHER, T. D., W. K. THOMAS, A. MEYER, S. V. EDWARDS, S. PÄÄBO, F. X. VILLABLANCA, AND A. C. WILSON. 1989. Dynamics of mitochondrial DNA evolution in animals: amplification and sequencing with conserved primers. *Proceedings of the National Academy of Sciences (USA)* 86:6196–6200.
- KÖHLER, S., C. F. DELWICHE, P. W. DENNY, L. G. TILNEY, P. WEBSTER, R. J. M. WILSON, J. D. PALMER, AND D. S. ROOS. 1997. A plastid of probable green algal origin in apicomplexan parasites. *Science* 275: 1485–1489.
- KOMDEUR, J. 1992. Importance of habitat saturation and territory quality for evolution of cooperative breeding in the Seychelles Warbler. *Nature* 358:493–495.
- KOMDEUR, J. 1994a. Conserving the Seychelles Warbler *Acrocephalus sechellensis* by translocation from Cousin Island to the islands of Aride and Cousine. *Biological Conservation* 67:143–152.
- KOMDEUR, J. 1994b. Experimental evidence for helping and hindering by previous offspring in the cooperative breeding Seychelles Warbler (*Acrocephalus sechellensis*). *Behavioural Ecology and Sociobiology* 34:175–186.
- KOMDEUR, J. 1996. Seasonal timing of reproduction in a tropical bird, the Seychelles Warbler: a field experiment using translocation. *Journal of Biological Rhythms* 11:333–346.
- KOMDEUR, J. 1997. Interisland transfers and population dynamics of Seychelles Warblers *Acrocephalus sechellensis*. *Bird Conservation International* 7:69–80.
- KOMDEUR, J., I. D. BULLOCK, AND M. R. W. RANDS. 1991. Conserving the Seychelles Warbler *Acrocephalus sechellensis* by translocation: a transfer from Cousin Island to Aride Island. *Bird Conservation International* 1:177–185.
- KOMDEUR, J., S. DAAN, J. TINBERGEN, AND C. MATEMAN. 1997. Extreme adaptive modification in sex ratio of the Seychelles Warbler's eggs. *Nature* 385: 522–525.
- KOMDEUR, J., A. HUFFSTADT, W. PRAST, G. CASTLE, R. MILETO, AND J. WATTEL. 1995. Transfer experiments of Seychelles Warblers to new islands: changes in dispersal and helping behaviour. *Animal Behaviour* 49:695–708.
- KOZLOWSKI, T. T., AND S. G. PALLARDY. 1997a. Physiology of woody plants. 2nd edition. Academic Press, San Diego, CA.
- KOZLOWSKI, T. T., AND S. G. PALLARDY. 1997b. Growth control in woody plants. Academic Press, San Diego, CA.
- KRAJEWSKI, C. 1994. Phylogenetic measures of biodiversity: a comparison and critique. *Biological Conservation* 69:33–39.
- KRAJEWSKI, C., AND D. G. KING. 1996. Molecular divergence and phylogeny: rates and patterns of cytochrome b evolution in cranes. *Molecular Biology Evolution* 13:21–30.
- KRAMER, R. J. 1971. Hawaiian land mammals. Charles E. Tuttle Company Inc., Rutland, VT.
- KRAUS, F., E. W. CAMPBELL, A. ALLISON, AND T. PRATT. 1999. *Eleutherodactylus* frog introductions to Hawaii. *Herpetology Review* 30:21–25.
- KROLL, J. C., K. A. ARNOLD, AND R. F. GOTIE. 1973. An observation of predation by native fire ants on nestling Barn Swallows. *Wilson Bulletin* 85:478–479.
- KUEHLER, C. M., AND J. GOOD. 1990. Artificial incubation of bird eggs at the Zoological Society of San Diego. *International Zoo Yearbook* 29:118–136.
- KUEHLER, C. M., P. HARRITY, A. LIEBERMAN, AND M. KUHN. 1995. Reintroduction of hand-reared Alala *Corvus hawaiiensis* in Hawaii. *Oryx* 29:261–266.
- KUEHLER, C. M., M. KUHN, J. E. KUHN, A. LIEBERMAN, N. HARVEY, AND B. RIDEOUT. 1996. Artificial incubation hand-rearing, behavior, and release of Common 'Amakihi (*Hemignathus virens virens*): surrogate research for restoration of endangered Hawaiian forest birds. *Zoo Biology* 15:541–553.
- KUEHLER, C. M., M. KUHN, B. McILRAITH, AND G. CAMPBELL. 1994. Artificial incubation and hand-rearing of 'Alalā (*Corvus hawaiiensis*) eggs removed from the wild. *Zoo Biology* 13:257–266.
- KUEHLER, C. M., A. LIEBERMAN, B. McILRAITH, W. EVERETT, T. A. SCOTT, M. L. MORRISON, AND C. WINCHELL. 1993. Artificial incubation and hand-rearing of Loggerhead Shrikes. *Wildlife Society Bulletin* 21: 165–171.
- KUEHLER, C. M., A. LIEBERMAN, A. VARNEY, P. UNITT, R. M. SULPICE, J. AZUA, AND B. TEHEVINI. 1997. Translocation of Ultramarine Lories (*Vini ultramarina*) in the Marquesas Islands: Ua Huka to Fatu Hiva. *Bird Conservation International* 7:69–79.
- KUEHLER, C. M., AND P. WITMAN. 1988. Artificial incubation of California Condor (*Gymnogyps californianus*) eggs removed from the wild. *Zoo Biology* 7:123–132.
- KUMAR, S., K. TAMURA, AND M. NEI. 1993. MEGA: molecular evolutionary genetics analysis. Version 1.02. Pennsylvania State University, University Park, PA.
- KURODA, N. 1961. The over-sea crossings of land birds in the western Pacific. Yamashina Institute for Ornithology and Zoology 3:47–53.
- LA RIVERS, I. 1948. Some Hawaiian ecological notes. *Wasmann Collector* 7:85–110.
- LAAKE, J. L., S. T. BUCKLAND, D. R. ANDERSON, AND K. P. BURNHAM. 1994. DISTANCE user's guide. Version 2.1. Colorado Cooperative Fish and Wildlife Research Unit, Colorado State University, Fort Collins, CO.
- LACK, D. 1947. The significance of clutch-size. Parts I and II. *Ibis* 89:302–352.
- LACK, D. 1948. The significance of clutch-size. Part III. *Ibis* 90:25–45.
- LACK, D. 1954. The natural regulation of animal numbers. Clarendon Press, Oxford, UK.
- LACK, D. 1966. Population studies of birds. Oxford University Press, London, UK.
- LACK, D. 1968. Ecological adaptations for breeding in birds. Methuen, London, UK.
- LACY, R. C. 1993. Vortex: a computer simulation mod-

- el for population viability analysis. *Wildlife Research* 20:45–65.
- LACY, R. C., K. A. HUGHES, AND P. S. MILLER. 1995. VORTEX: A stochastic simulation of the extinction process. Version 7 User's Manual. IUCN/SSC Conservation Breeding Specialist Group, Apple Valley, MN.
- LAIRD, M., AND C. VAN Riper, III. 1981. Questionable reports of *Plasmodium* from birds in Hawaii, with the recognition of *P. relictum* ssp. *capistranoae* (Russell, 1932) as the avian malarial parasite there. Pp. 159–165 in E. V. Canning (editor). *Parasitological Topics, Special Publication No. 1*. Society of Protozoologists.
- LAMMERS, T. G., AND C. E. FREEMAN. 1986. Ornithophily among the Hawaiian Lobelioidae (Campanulaceae): evidence from floral nectar sugar compositions. *American Journal of Botany* 73:1613–1619.
- LAMONT, S. J., C. BOLIN, AND N. CHEVILLE. 1987. Genetic resistance to fowl cholera is linked to the major histocompatibility complex. *Immunogenetics* 25: 284–289.
- LANDE, R. 1988. Genetics and demography in biological conservation. *Science* 241:1455–1460.
- LANDE, R. 1995. Mutation and conservation. *Conservation Biology* 9:782–791.
- LANDE, R., AND G. F. BARROWCLOUGH. 1987. Effective population size, genetic variation, and their use in population management. Pp. 87–123 in M. E. Soulé (editor). *Viable populations for conservation*. Cambridge University Press, New York, NY.
- LAYNE, J. N. 1997. Nonindigenous mammals. Pp. 157–186 in D. Simberloff, D. C. Schmitz, and T. C. Brown (editors). *Strangers in paradise: impact and management of nonindigenous species in Florida*. Island Press, Washington, D.C.
- LEISHMAN, N. J. 1986. Fulvous Whistling-ducks breeding in Hawaii: a new indigene or another exotic? *'Elepaio* 46:75–76.
- LEPSON, J. K. 1997. 'Anianiau (*Hemignathus parvus*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 312. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- LEPSON, J. K., AND L. A. FREED. 1995. Variation in male plumage and behavior of the Hawaii Akepa. *Auk* 112:402–414.
- LEPSON, J. K., AND L. A. FREED. 1997. 'Ākepa (*Loxops coccineus*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 294. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- LEPSON, J. K., AND S. M. JOHNSTON. 2000. Greater 'Akialoa (*Hemignathus ellisianus*) and Lesser 'Akialoa (*Hemignathus obscurus*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 512. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- LEPSON, J. K., AND H. D. PRATT. 1997. 'Akeke'e (*Loxops caeruleirostris*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 295. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- LESLIE, M., G. K. MEFFE, J. L. HARDESTY, AND D. L. ADAMS. 1996. Conserving biodiversity on military lands: a handbook for natural resource managers. The Nature Conservancy, Arlington, VA.
- LESLIE, P. H. 1945. On the use of certain matrices in population mathematics. *Biometrika* 33:183–212.
- LEVER, C. 1987. *Naturalized birds of the world*. Longman Science and Technology, Essex, England.
- LEVINE, N. D. 1980. *Nematode parasites of domestic animals and man*. Burgess Publishing Company, Minneapolis, MN.
- LEVINE, N. D. 1988. Blood parasites: the malaria and related parasites. Pp. 11–34 in N. D. Levine (editor). *The protozoan phylum apicomplexa*. Vol. 2. CRC Press, Boca Raton, FL.
- LEVITON, A. E. 1965. Contributions to a review of Philippine snakes, VIII. The snakes of the genus *Lycodon* H. Boie. *Philippine Journal of Science* 94:117–140.
- LEWIN, V. 1971. Exotic game birds of the Puu Waawaa Ranch, Hawaii. *Journal of Wildlife Management* 35: 141–155.
- LEWIN, V., AND J. C. HOLMES. 1971. Helminths from the exotic game birds of the Puuwaawaa Ranch, Hawaii. *Pacific Science* 25:372–381.
- LEWIN, V., AND G. LEWIN. 1984. The Kalij Pheasant, a newly established game bird on the island of Hawaii. *Wilson Bulletin* 96:634–646.
- LEWIN, V., AND J. L. MAHRT. 1983. Parasites of Kalij Pheasants (*Lophura leucomelana*) on the island of Hawaii. *Pacific Science* 37:81–83.
- LIEBERMAN, A., C. KUEHLER, A. VARNEY, P. UNITT, R. M. SULPICE, J. AZUA, AND B. TEHEVINI. 1997. A note on the 1997 survey of the translocated Ultramarine Lory (*Vini ultramarina*) population on Fatu Hiva, Marquesas Islands, French Polynesia. *Bird Conservation International* 7:291–292.
- LIGON, J. D., AND P. B. STACEY. 1996. Land use, lag times and the detection of demographic change: the case of the Acorn Woodpecker. *Conservation Biology* 10:840–846.
- LINDENMAYER, D. B., M. A. BURGMAN, H. R. AKÇAKAYA, R. C. LACY, AND H. P. POSSINGHAM. 1995. A review of the generic computer programs ALEX, RAMAS/Space and VORTEX for modelling the viability of wildlife metapopulations. *Ecological Modelling* 82:161–174.
- LINDENMAYER, D. B., R. B. CUNNINGHAM, C. F. DONNELLY, M. T. TANTON, AND H. A. NIX. 1993. The abundance and development of cavities in *Eucalyptus* trees: a case study in the montane forests of Victoria, southeastern Australia. *Forest Ecology and Management* 60: 77–104.
- LINDENMAYER, D. B., R. B. CUNNINGHAM, H. A. NIX, M. T. TANTON, AND A. P. SMITH. 1991a. Predicting the abundance of hollow-bearing trees in montane forest of southeastern Australia. *Australian Journal of Ecology* 16:91–98.
- LINDENMAYER, D. B., R. B. CUNNINGHAM, M. T. TANTON, A. P. SMITH, AND H. A. NIX. 1991b. Characteristics of hollow-bearing trees occupied by arboreal marsupials in the montane ash forests of the Central Highlands of Victoria, south-east Australia. *Forest Ecology and Management* 40:289–308.
- LINDSEY, G. D., S. G. FANCY, M. H. REYNOLDS, T. K. PRATT, K. A. WILSON, P. C. BANKO, AND J. D. JACOBI.

- 1995a. Population structure and survival of Palila. *Condor* 97:528–535.
- LINDSEY, G. D., K. A. WILSON, AND C. HERRMANN. 1995b. Color change in Hughes's celluloid leg bands. *Journal Field Ornithology* 66:289–295.
- LINDSEY, G. D., S. M. MOSHER, S. G. FANCY, AND T. D. SMUCKER. 1999. Population structure and movements of introduced rats in an Hawaiian rain forest. *Pacific Conservation Biology* 5:94–102.
- LINDSEY, G. D., T. K. PRATT, M. H. REYNOLDS, AND J. D. JACOBI. 1997. Response of six species of Hawaiian forest birds to a 1991–1992 El Nino drought. *Wilson Bulletin* 109:339–343.
- LINDSEY, G. D., E. A. VANDERWERF, H. BAKER, AND P. E. BAKER. 1998. Hawai'i (*Hemignathus virens*), Kaua'i (*Hemignathus kauaiensis*), O'ahu (*Hemignathus chloris*), and Greater 'Amakihi (*Hemignathus sagittirostris*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 360. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- LINLEY, J. R., AND J. B. DAVIES. 1971. Sandflies and tourism in Florida and the Bahamas and Caribbean area. *Journal of Economic Entomology* 64:264–278.
- LITVINEKHO, N. M. 1993. Effects of disturbance by people and introduced predators on seabirds in the northwest Pacific. Pp. 227–231 in K. T Vermeer, K. T. Briggs, K. H. Morgan, and D. Siegele-Cavsey (editors). *The status, ecology, and conservation of marine birds of the north Pacific*. Canadian Wildlife Service, Ottawa, Ontario.
- LIVEZEY, B. C. 1991. A phylogenetic analysis and classification of recent dabbling ducks (tribe Anatinii) based on comparative morphology. *Auk* 108:471–507.
- LIVEZEY, B. C. 1993. Comparative morphometrics of *Anas* ducks, with particular reference to the Hawaiian Duck *Anas wyvilliana*, Laysan Duck *A. laysanensis*, and Eaton's Pintail *A. eatoni*. *Wildfowl* 44: 75–100.
- LIVEZEY, B. C. 1996. A phylogenetic analysis of geese and swans (Anseriformes: Anserinae), including selected fossil species. *Systematic Biology* 45:415–450.
- LOCKLEY, T. C. 1995. Effect of imported fire ant predation on a population of the least tern—an endangered species. *Southwestern Entomologist* 20:517–519.
- LOCKRIDGE, P. A., AND R. H. SMITH. 1984. Tsunamis in the Pacific Basin, 1900–1983. National Geophysical Data Center, Boulder, CO.
- LOEW, S., AND R. C. FLEISCHER. 1996. Multilocus DNA fingerprinting. Pp. 456–461 in J. D. Ferraris and S. R. Palumbi (editors). *Molecular zoology: advances, strategies and protocols*. Wiley-Liss, New York, NY.
- LOISELLE, B. A., AND J. G. BLAKE. 1991. Temporal variation in birds and fruits along an elevational gradient in Costa Rica. *Ecology* 72:180–193.
- LONG, J. L. 1981. Introduced birds of the world. A. H. and A. W. Reed, Sydney, Australia.
- LONGENECKER, B. M., AND T. R. MOSSMAN. 1981. Nomenclature for chicken MHC (B) antigens defined by monoclonal antibodies. *Immunogenetics* 13:25–28.
- LONGENECKER, B. M., F. PAZDERKA, J. S. GAVORA, J. L. SPENCER, AND R. F. RUTH. 1976. Lymphoma induced by Herpesvirus: resistance associated with a major histocompatibility gene. *Immunogenetics* 3: 401–407.
- LONGENECKER, B. M., F. PAZDERKA, G. R. LAW, AND R. F. RUTH. 1972. Genetic control of graft-versus-host competence. *Transplantation* 14:424–431.
- LOOPE, L. L. 1997. The Hawaiian islands as a laboratory for addressing alien species problems. Pp. 259–260 in G. Meffe and R. Carroll (editors). *Principles of conservation biology*, 2nd edition. Sinauer Associates, Inc. Sunderland, MA.
- LOOPE, L. L., O. HAMANN, AND C. P. STONE. 1988. Comparative conservation biology of oceanic archipelagoes: Hawaii and the Galápagos. *BioScience* 38: 272–282.
- LOOPE, L. L., AND A. C. MEDEIROS. 1994. Impacts of biological invasions on the management and recovery of rare plants in Haleakala National Park, Maui, Hawaiian Islands. Pp. 143–158 in M. Bowles and C. J. Whelan (editors). *Restoration of endangered species*. Cambridge University Press, Cambridge, UK.
- LOOPE, L. L., A. C. MEDEIROS, W. MINYARD, S. JESSEL, AND W. EVANSON. 1992. Strategies to prevent establishment of feral rabbits on Maui, Hawaii. *Pacific Science* 46:402–403.
- LOOPE, L. L., AND D. MUELLER-DOMBOIS. 1989. Characteristics of invaded islands. Pp. 257–280 in J. A. Drake, H. Aimone, F. di Castri, R. H. Anoves, F. J. Kruger, M. Rejmanek, and M. Williamson (editors). *Biological invasions: a global perspective*. John Wiley and Sons, Chichester, UK.
- LOOPE, L. L., AND C. P. STONE. 1996. Strategies to reduce erosion of biodiversity by exotic terrestrial species. Pp. 261–279 in R. C. Szaro and D. W. Johnston (editors). *Biodiversity in managed landscapes: theory and practice*. Oxford University Press, New York, NY.
- LOVERIDGE, A. 1945. *Reptiles of the Pacific world*. MacMillan Publishing Co., New York, NY.
- LOYE, J., AND S. CARROLL. 1995. Birds, bugs and blood: avian parasitism and conservation. *Trends in Ecology and Evolution* 10:232–235.
- LWANGA, S. K., AND S. LEMESHOW. 1991. Sample size determination in health studies. World Health Organization, Geneva, Switzerland.
- LYNCH, M. 1988. Estimation of relatedness by DNA fingerprinting. *Molecular Biology and Evolution* 5: 584–589.
- LYNCH, M. 1996. A quantitative-genetic perspective on conservation issues. Pp. 471–489 in J. C. Avise and J. L. Hamrick (editors). *Conservation genetics: case histories from nature*. Chapman and Hall, New York, NY.
- LYNCH, M., AND R. LANDE. 1998. The critical effective size for a genetically secure population. *Animal Conservation* 1:70–72.
- LYON, H. L. 1918. The forests of Hawaii. *Hawaii Planter Record* 20:276–281.
- LYONS, S. W. 1979. Summer weather on Haleakala, Maui. University of Hawaii, Department of Meteorology, UHMET 79–09.
- MABEN, A. F. 1982. The feeding ecology of the Black

- Drongo *Dicrurus macrocercus* on Guam. M.S. thesis. California State University, Long Beach, CA.
- MACARTHUR, R. H. 1972. Geographical ecology: patterns in the distribution of species. Harper and Row, New York, NY.
- MACARTHUR, R. H., AND E. O. WILSON. 1967a. The theory of island biogeography. Princeton University Press, Princeton, NJ.
- MACARTHUR, R. H., AND E. O. WILSON. 1967b. An equilibrium theory of insular zoogeography. *Evolution* 17:373–387.
- MACCAUGHEY, V. 1919. The Hawaiian Elepaio. *Auk* 36:22–35.
- MACDONALD, I. A. W., L. L. LOOPE, M. B. USHER, AND O. HAMANN. 1989. Wildlife conservation and the invasion of nature reserves by introduced species: a global perspective. Pp. 215–255 in J.A. Drake, H. Aimone, F. di Castri, R. H. Anoves, F. J. Kruger, M. Rejmanek, and M. Williamson (editors). Biological invasions: a global perspective. John Wiley and Sons, Chichester, UK.
- MACE, G. M., AND R. LANDE. 1991. Assessing extinction threats: towards a reevaluation of IUCN threatened species categories. *Conservation Biology* 5: 148–157.
- MACKOWSKI, C. M. 1984. The ontogeny of hollows in Blackbutt, *Eucalyptus pilularis*, and its relevance to the management of forests for possums, gliders, and timber. Pp. 517–525 in A. P. Smith and I. D. Hume (editors). Possums and gliders. Surrey Beatty and Sons, Sydney, Australia.
- MACMILLEN, R. E., AND F. L. CARPENTER. 1980. Evening roosting flights of the honeycreepers *Himatione sanguinea* and *Vestiaria coccinea* on Hawaii. *Auk* 97:28–37.
- MADDISON, W. P., AND D. R. MADDISON. 1992. MacClade, Release Version 3.01. Sinauer Associates, Sunderland, MA.
- MALE, T. D., AND T. J. SNETSINGER. 1998. Has the Red-billed Leiothrix disappeared from Kaua'i? *'Elepaio* 58:39–43.
- MALO, D., AND E. SKAMENE. 1994. Genetic control of host resistance to infection. *Trends in Genetics* 10: 365–371.
- MALY, K., R. R. RECHTMAN, AND P. H. ROSENDAHL. 1997. Guidance for the preparation of a community caretaker/partnership plan for cultural resources stewardship at Marine Corps Base Hawaii. Final report. Prepared by Paul H. Rosendahl, Ph.D., Inc. (PHRI), Hilo, HI.
- MALY, K., AND P. H. ROSENDAHL. 1995. Mokapu Peninsula oral history study, Pu'u Hawaii Loa family housing project site, Marine Corps Base Hawaii, Lands of He'eia and Kane'ohe, Island of Oa'hu. Final report. Prepared by Paul H. Rosendahl, Ph.D., Inc. (PHRI), Hilo, HI.
- MANLY, B. F. J. 1992. The design and analysis of research studies. Cambridge University Press, New York, NY.
- MARCHANT, S. 1960. The breeding of some S.W. Ecuadorian birds. *Ibis* 102:349–382; 584–599.
- MARCKSTRÖM, V., R. E. KENWARD, AND E. ENGRES. 1988. The impact of predation on boreal tetraonids during vole cycles: an experimental study. *Journal of Animal Ecology* 57:859–872.
- MARKIN, G. P. 1970. Food distribution within laboratory colonies of the Argentine ant, *Iridomyrmex humilis* (Mayr). *Insectes Sociaux* 17:127–158.
- MARSHALL, H. D., AND A. J. BAKER. 1997. Structural conservation and variation in the mitochondrial control region of fringilline finches (*Fringilla* spp.) and the greenfinch (*Carduelis chloris*). *Molecular Biology and Evolution* 14:173–84.
- MARTIN, A. P., AND S. R. PALUMBI. 1993. Body size, metabolic rate, generation time, and the molecular clock. *Proceedings of the National Academy of Sciences (USA)* 90:4087–4091.
- MARTIN, C. M. 1994. Recovering endangered species and restoring ecosystems: conservation planning for the twenty-first century in the United States. *Ibis* 137:S198–S203.
- MARTIN, P. W., AND P. BATESON. 1986. Measuring behaviour. An introductory guide. Cambridge University Press, Cambridge, UK.
- MARTIN, P. W., AND M. T. MYRES. 1969. Observations on the distribution and migration of some seabirds off the outer coasts of British Columbia and Washington State, 1946–1949. *Syesis* 2:241–256.
- MARTIN, T. E. 1987. Food as a limit on breeding birds: a life-history perspective. *Annual Review of Ecology and Systematics* 18:453–487.
- MARTIN, T. E. 1988. Habitat and area effects on forest bird assemblages: is nest predation an influence? *Ecology* 69:74–84.
- MARTIN, T. E. 1992a. Breeding productivity considerations: what are the appropriate habitat features for management? Pp. 455–473 in J. M. Hagen, III, and D. W. Johnston (editors). *Ecology and conservation of Neotropical migrant landbirds*. Smithsonian Institution Press, Washington, D.C.
- MARTIN, T. E. 1992b. Interaction of nest predation and food limitation in reproductive strategies. *Current Ornithology* 9:163–197.
- MARTIN, T. E. 1993. Nest predation among vegetation layers and habitat types: revising the dogmas. *American Naturalist* 141:897–913.
- MARTIN, T. E. 1995. Avian life history evolution in relation to nest sites, nest predation, and food. *Ecological Monographs* 65:101–127.
- MARTIN, T. E., AND G. R. GUEPEL. 1993. Nest-monitoring plots: methods for locating nests and monitoring success. *Journal Field Ornithology* 64:507–519.
- MASCIE-TAYLOR, C. G. N. 1993. The biological anthropology of disease. Pp. 1–72 in C. G. N. Mascie-Taylor (editor). *The anthropology of disease*. Oxford University Press, New York, NY.
- MATTHECK, C. 1991. Trees: the mechanical design. Springer-Verlag, New York, NY.
- MAYFIELD, H. F. 1975. Suggestions for calculating nest success. *Wilson Bulletin* 87:456–466.
- MAYR, E. 1927. Die Schneefinken (Gattungen *Montifringilla* und *Leucosticte*). *Journ Fur Ornithologic* 75: 596–619.
- MAYR, E. 1942a. Systematics and the origin of species. Columbia University Press, New York, NY.
- MAYR, E. 1942b. [Review of] Speciation in the avian genus *Junco*, by A. H. Miller. *Ecology* 23:378–379.
- MAYR, E. 1943. The zoogeographic position of the Hawaiian Islands. *Condor* 45:45–48.

- MAYR, E. 1945. Birds of the southwest Pacific. The Macmillan Co., New York, NY.
- MAYR, E. 1953. On the origin of bird migration in the Pacific. Pp. 387–393 in Proceedings of the Seventh Pacific Science Congress. Vol. 4. Whitcomb and Tombs, Auckland, New Zealand.
- MAYR, E. 1963. Animal species and evolution. Belknap Press, Cambridge, MA.
- MAYR, E. 1969. Principles of systematic zoology. McGraw-Hill Book Co., New York, NY.
- MAYR, E. 1992. A local flora and the biological species concept. American Journal of Botany 79:222–238.
- MAYR, E., AND L. L. SHORT. 1970. Species taxa of North American birds. Publications of the Nuttall Ornithological Club, No. 9. Cambridge, MA.
- MAZOUREK, J. C., AND P. N. GRAY. 1994. The Florida Duck or the Mallard. Florida Wildlife 48:29–31.
- MCCOID, M. J. 1995. Non-native reptiles and amphibians. Pp. 433–437 in E. T. LaRoe, G. S. Farris, C. E. Puckett, P. D. Doran, and M. J. Mac (editors). Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems. U.S. Department of the Interior, National Biological Service, Washington, D.C.
- McCoy, M. 1980. Reptiles of the Solomon Islands. Wau Ecology Institute, Wau, Papua New Guinea.
- MCCUTCHAN, T. F. 1986. The ribosomal genes of *Plasmodium*. International Review of Cytology 99:295–309.
- MCCUTCHAN, T. F., J. C. KISSINGER, M. G. TOURAY, M. J. ROGERS, J. LI, M. SULLIVAN, E. M. BRAGA, A. U. KREITLI, AND L. H. MILLER. 1996. Comparison of circumsporozoite proteins from avian and mammalian malarias: biological and phylogenetic implications. Proceedings of the National Academy of Sciences (USA) 93:11889–11894.
- MCCUTCHAN, T. F., J. LI, G. A. MC CONKEY, M. J. ROGERS, AND A. P. WATERS. 1995. The cytoplasmic ribosomal RNAs of *Plasmodium* spp. Parasitology Today 11:134–138.
- MCDOWELL, D. 1997. Managing ecosystems for successful development. World Conservation Vol. 28, No. 3. International Union for Conservation of Nature and Natural Resources, Gland, Switzerland.
- MCDOWELL, S. B. 1974. A catalogue of the snakes of New Guinea and the Solomons, with special reference to those in the B. P. Bishop Museum. Part I. Scolecophidia. Journal of Herpetology 8:1–57.
- MC GUIRE, W., A. V. S. HILL, C. E. M. ALLSOPP, B. M. GREENWOOD, AND D. KWIAKOWSKI. 1994. Variation in the TNF- α promoter region associated with susceptibility to cerebral malaria. Nature 371:508–511.
- MCINTOSH, J., AND I. CARLSON. 1996. Archaeological monitoring during mangrove removal at Nu'upia Ponds Wildlife Management Area, Marine Corps Base Hawaii, Island of O'ahu, Hawai'i Kāne'ohe Bay, Ko'olau Poko District. Final Report TMK 4-4-08. Prepared by BioSystems Analysis, Inc., Kailua, HI.
- McKEOWN, S. 1996. A field guide to reptiles and amphibians in the Hawaiian Islands. Diamond Head Publishers, Los Osos, CA.
- MEDEIROS, A. C., L. L. LOOPE, P. CONANT, AND S. McELVANEY. 1997. Status, ecology, and management of the invasive plant, *Miconia calvescens* DC (Melastomataceae) in the Hawaiian Islands. Occasional Papers B. P. Bishop Museum 48:23–36.
- MEDEIROS, J. S. 1950–1959. Annual waterfowl count. Job Completion Reports 1950–1959. Territory of Hawaii Fish and Game, Honolulu, HI.
- MEDEIROS, J. S. 1958. Present status of migratory waterfowl in Hawaii. Journal of Wildlife Management 22:109–117.
- MEDWAY, D. G. 1981. The contribution of Cook's third voyage to the ornithology of the Hawaiian Islands. Pacific Science 35:105–175.
- MEFFE, G. K., AND C. R. CARROLL. 1994. Principles of conservation biology. Sinauer Associates, Inc., Sunderland, MA.
- MERTON, D. V. 1975. The saddleback: its status and conservation. Pp. 61–74 in R. D. Martin (editor). Breeding endangered species in captivity. Academic Press, New York, NY.
- MEYER, J.-Y. 1996. Status of *Miconia calvescens* (Melastomataceae), a dominant invasive tree in the Society Islands (French Polynesia). Pacific Science 50: 66–76.
- MEYER, J.-Y., AND J. FLORENCE. 1997. Tahiti's native flora endangered by the invasion of *Miconia calvescens* DC (Melastomataceae). Journal of Biogeography 23:775–781.
- MEYER, J.-Y., AND J.-P. MALET. 1997. Management of the alien invasive tree *Miconia calvescens* DC (Melastomataceae) in the islands of Raiatea and Tahaa (Society Islands, French Polynesia): 1992–1996. Technical Report 111. Cooperative National Park Resources Studies Unit, University of Hawaii at Manoa, Honolulu, HI.
- MEYER DE SCHAUENSEE, R. 1984. The birds of China. Smithsonian Press, Washington, D.C.
- MICROWIZARD. 1995. Bird song master 2.2 (Hawaii). Columbus, OH.
- MIGOYA, R., AND G. A. BALDASSARRE. 1995. Winter survival of female northern pintails in Sinaloa, Mexico. Journal of Wildlife Management 59:16–22.
- MILBERG, P., AND T. TYRBERG. 1993. Naive birds and noble savages—a review of man-caused prehistoric extinctions of island birds. Ecography 6:229–250.
- MILLER, A. H. 1937. Structural modifications in the Hawaiian Goose (*Nesochen sandvicensis*), a study in adaptive evolution. University of California Publications in Zoology 42(1):1–79.
- MILLER, M. M., R. GOTO, A. BERNOT, R. ZOOROB, C. AUFFRAY, N. BUMSTEAD, AND W. E. BRILES. 1994a. Two Mhc class I and two Mhc class II genes map to the chicken *Rfp-Y* system outside of the *B* complex. Proceedings of the National Academy of Sciences (USA) 91:4397–4401.
- MILLER, M. M., R. GOTO, S. YOUNG, J. LIU, AND J. HARDY. 1990. Antigens similar to major histocompatibility complex B-G are expressed in the intestinal epithelium in the chicken. Immunogenetics 32: 45–50.
- MILLER, M. M., R. GOTO, R. ZOOROB, C. AUFFRAY, AND W. E. BRILES. 1994b. Regions of homology shared by *Rfp-Y* and major histocompatibility B complex genes. Immunogenetics 39:71–73.
- MILLER, M. R. 1985. Time budgets of Northern Pintail

- wintering in the Sacramento Valley, California. *Wildfowl* 36:53–64.
- MILLER, S. E., AND L. G. ELDREDGE. 1996. Numbers of Hawaiian species: supplement 1. Occasional Papers B. P. Bishop Museum 45:8–17.
- MILLS, L. S., S. G. HAYES, C. BALDWIN, M. J. WISDOM, J. CITTA, D. J. MATTSON, AND K. MURPHY. 1996. Factors leading to different viability predictions for a grizzly bear data set. *Conservation Biology* 10: 863–873.
- MONIZ, J. J. 1997. The role of seabirds in Hawaiian subsistence: implication for interpreting avian extinction and extirpation in Polynesia. *Asian Perspectives* 36:27–50.
- MONROE, B. L., JR, AND C. G. SIBLEY. 1993. A world checklist of birds. Yale University Press, New Haven, CT.
- MONTGOMERIE, R. D., AND C. A. REDSELL. 1980. A nesting hummingbird feeding solely on arthropods. *Condor* 82:463–464.
- MOORE, W. S., AND V. R. DEFILIPPIS. 1997. The window of taxonomic resolution for phylogenies based on mitochondrial cytochrome b. Pp. 83–119 in D. P. Mindell (editor). *Avian molecular evolution and systematics*. Academic Press, San Diego, CA.
- MOORE, W. S., S. M. SMITH, AND T. PRYCHITKO. In press. Nuclear gene introns versus mitochondrial genes as molecular clocks. *Proceedings of the 22nd International Ornithological Congress*.
- MOORS, P. J., AND I. A. E. ATKINSON. 1984. Predation on seabirds by introduced animals, and factors affecting its severity. Pp. 668–690 in J. P. Croxall, P. G. H. Evans, and R. W. Schreiber (editors). *Status and conservation of the world's seabirds*. International Council for Bird Preservation Technical Publication No. 2. Cambridge, UK.
- MORIN, M. P. 1992a. The breeding biology of an endangered Hawaiian honeycreeper, the Laysan Finch. *Condor* 94:646–667.
- MORIN, M. P. 1992b. Laysan Finch nest characteristics, nest spacing and reproductive success in two vegetation types. *Condor* 94:344–357.
- MORIN, M. P. 1996. Response of a remnant population of endangered waterbirds to avian botulism. *Transactions of the Western Section of the Wildlife Society* 32:23–33.
- MORIN, M. P., AND S. CONANT. 1994. Variables influencing population estimates of an endangered passerine. *Biological Conservation* 67:73–84.
- MORIN, M. P., AND S. CONANT. 1998. Laysan Island ecosystem restoration plan. U.S. Fish and Wildlife Service report. Hamilton Library, University of Hawaii, Honolulu, HI.
- MORIN, M. P., S. CONANT, AND P. CONANT. 1997. Laysan and Nihoa Millerbird (*Acrocephalus familiaris*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 302. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- MORTON, E. S. 1973. On the evolutionary advantages and disadvantages of fruit eating in tropical birds. *American Naturalist* 107:8–22.
- MOUGIN, J. L., C. JOUANIN, AND F. ROUX. 1987. Structure et dynamique de la population de Puffins Centre *Calonectris diomedea borealis* de L'île Selvagem Grande. *L'Oiseau et Revue Ornithologique* 57: 201–225.
- MOULTON, D. W., AND A. P. MARSHALL. 1996. Laysan Duck (*Anas laysanensis*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 242. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- MOULTON, D. W., AND M. W. WELLER. 1984. Biology and conservation of the Laysan Duck (*Anas laysanensis*). *Condor* 86:105–117.
- MOULTON, M. P. 1985. Morphological similarity and coexistence of congeners: an experimental test with introduced Hawaiian birds. *Oikos* 44:301–305.
- MOULTON, M. P. 1993. The all-or-none pattern in introduced Hawaiian passeriforms: the role of competition sustained. *American Naturalist* 141:105–119.
- MOULTON, M. P., AND J. L. LOCKWOOD. 1992. Morphological dispersion of introduced Hawaiian finches: evidence for competition and a Narcissus effect. *Evolutionary Ecology* 6:45–55.
- MOULTON, M. P., AND S. L. PIMM. 1983. The introduced Hawaiian avifauna: biogeographic evidence for competition. *American Naturalist* 121:669–690.
- MOULTON, M. P., AND S. L. PIMM. 1986a. The extent of competition in shaping an introduced avifauna. Pp. 80–97 in J. Diamond and T. J. Case (editors). *Community ecology*. Harper and Row, New York, NY.
- MOULTON, M. P., AND S. L. PIMM. 1986b. Species introductions to Hawaii. Pp. 231–249 in H. A. Mooney and J. A. Drake (editors). *Ecology of biological invasions of North America and Hawaii*. Springer-Verlag, New York, NY.
- MOULTON, M. P., AND S. L. PIMM. 1987. Morphological assortment in introduced Hawaiian passerines. *Evolutionary Ecology* 1:113–124.
- MOULTON, M. P., S. L. PIMM, AND M. W. KRISINGER. 1990. Nutmeg Mannikin (*Lonchura punctulata*): a comparison of abundances in O'ahu vs. Maui sugarcane fields: evidence for competitive exclusion? *'Elepaio* 50:83–85.
- MOULTON, M. P., AND J. G. SANDERSON. 1997. Predicting the fates of passeriform introductions on oceanic islands. *Conservation Biology* 11:552–558.
- MOUNTAINSPRING, S. 1987. Ecology, behavior, and conservation of the Maui Parrotbill. *Condor* 89:24–39.
- MOUNTAINSPRING, S., T. L. C. CASEY, C. B. KEPLER, AND J. M. SCOTT. 1990. Ecology, behavior, and conservation of the Poo-uli (*Melamprosops phaeosoma*). *Wilson Bulletin* 102:109–122.
- MOUNTAINSPRING, S., J. G. GIFFIN, C. B. KEPLER, R. T. SUGIHARA, J. E. WILLIAMS, AND T. W. SUTTERFIELD. 1987. Regeneration of the subalpine woodland on Mauna Kea, Hawaii. U.S. Fish and Wildlife Service, Hawaii Volcanoes National Park, HI.
- MOUNTAINSPRING, S., AND J. M. SCOTT. 1985. Interspecific competition among Hawaiian forest birds. *Ecological Monographs* 55:219–239.
- MUELLER-DOMBOIS, D. 1980. The 'ōhi'a dieback phenomenon in the Hawaiian rain forest. Pp. 153–161 in J. Cairns, Jr. (editor). *The recovery process in damaged ecosystems*. Ann Arbor Science Publications, Ann Arbor, MI.
- MUELLER-DOMBOIS, D. 1981. Fires in tropical ecosys-

- tems. Pp. 137–176 in H. A. Mooney, T. M. Bonnicksen, N. L. Christensen, J. E. Lotan, and W. A. Reiners (editors). Fire regimes and ecosystem properties. USDA, Forest Service Gen. Tech. Rep. WO-26, Washington, D.C.
- MUELLER-DOMBOIS, D. 1987. Forest dynamics in Hawaii. Trends in Ecology and Evolution 2:216–220.
- MUELLER-DOMBOIS, D., K. W. BRIDGES, AND H. L. CARSON (EDITORS). 1981a. Island ecosystems: biological organization in selected Hawaiian communities. Hutchinson Ross Publishing Company, Stroudsburg, PA.
- MUELLER-DOMBOIS, D., R. G. COORAY, J. E. MAKÀ, G. SPATZ, W. C. GAGNÉ, F. G. HOWARTH, J. L. GRESSITT, G. A. SAMUELSON, S. CONANT, AND P. Q. TOMICH. 1981b. Structural variation of organism groups studies in the Kīlauea Forest. Pp. 231–317 in D. Mueller-Dombois, K. W. Bridges, and H. L. Carson (editors). Island ecosystems: biological organization in selected Hawaiian communities. Hutchinson Ross Publishing Company, Stroudsburg, PA.
- MUELLER-DOMBOIS, D., AND H. ELLENBERG. 1974. Aims and methods of vegetation ecology. John Wiley and Sons, Inc., New York, NY.
- MUNRO, G. C. 1944. Birds of Hawaii. Tongg Publishing Company, Honolulu, HI.
- MUNRO, G. C. 1955. Hawaii's birds in their homes: how to save them from extinction, Part VII. Elepaio 16:28–30.
- MUNRO, G. C. 1960. Birds of Hawaii. Revised Edition. Charles E. Tuttle Co. Inc., Rutland, VT, and Tokyo, Japan.
- MURRAY, B. G., JR. 1971. The ecological consequences of interspecific territorial behavior in birds. Ecology 52:414–423.
- MURRAY, B. G., JR. 1979. Population dynamics: alternative models. Academic Press, New York, NY.
- MURRAY, B. G. 1981. The origins of adaptive interspecific territorialism. Biological Review 56:1–22.
- MURRAY, B. G., JR. 1982. On the meaning of density dependence. Oecologia 53:370–373.
- MURRAY, B. G., JR. 1985. Evolution of clutch size in tropical species of birds. Pp. 505–519 in P. A. Buckley, M. S. Foster, E. S. Morton, R. S. Ridgely, and F. G. Buckley (editors). Neotropical ornithology. American Ornithologists' Union, Washington, D.C.
- MURRAY, B. G., JR. 1986. The structure of theory, and the role of competition in community dynamics. Oikos 46:145–158.
- MURRAY, B. G., JR. 1991a. Sir Isaac Newton and the evolution of clutch size in birds: a defense of the hypothetico-deductive method in ecology and evolutionary biology. Pp. 143–180 in J. L. Casti and A. Karlquist (editors). Beyond belief: randomness, prediction, and explanation in science. CRC Press, Boca Raton, FL.
- MURRAY, B. G., JR. 1991b. Measuring annual reproductive success, with comments on the evolution of reproductive behavior. Auk 108:942–952.
- MURRAY, B. G., JR. 1992a. The evolution of clutch size: a reply to Wootton, Young, and Winkler. Evolution 46:1581–1584.
- MURRAY, B. G., JR. 1992b. The evolutionary significance of lifetime reproductive success. Auk 109: 167–172.
- MURRAY, B. G., JR. 1994a. Effect of selection for successful reproduction on hatching synchrony and asynchrony. Auk 111:806–813.
- MURRAY, B. G., JR. 1994b. On density dependence. Oikos 69:520–523.
- MURRAY, B. G., JR. 1997a. Population dynamics of evolutionary change: demographic parameters as indicators of fitness. Theoretical Population Biology 51:180–184.
- MURRAY, B. G., JR. 1997b. On calculating birth and death rates. Oikos 78:384–387.
- MURRAY, B. G., JR. 1999. Predicting the occurrence of synchronous and asynchronous hatching in birds. Pp. 624–637 in N. J. Adams and R. H. Slotow (editors). Proceedings of the 22nd International Ornithological Congress. Durban, South Africa. BirdLife South Africa, Johannesburg, South Africa. (Published on CD)
- MURRAY, B. G., JR., J. W. FITZPATRICK, AND G. E. WOOLFENDEN. 1989. The evolution of clutch size. II. A test of the Murray-Nolan equation. Evolution 43: 1706–1711.
- MURRAY, B. G., JR., AND V. NOLAN, JR. 1989. The evolution of clutch size. I. An equation for predicting clutch size. Evolution 43:1699–1705.
- MURRAY, T. E., J. A. BARTLE, S. R. KALISH, AND P. R. TAYLOR. 1993. Incidental capture of seabirds by Japanese southern bluefin tuna longline vessels in New Zealand waters, 1988–1992. Bird Conservation International 3:181–210.
- MUSSER, G. G., AND M. D. CARLETON. 1993. Family Muridae. Pp. 501–755 in D. E. Wilson and D. M. Reeder (editors). Mammal species of the world. 2nd edition. Smithsonian Institution Press, Washington, D.C.
- MYERS, J. P. 1988. Dowitcher DNA. American Birds 42:1207–1209.
- MYLES, D. 1985. The great waves. McGraw-Hill, New York, NY.
- NAG. 1993. The GLIM system: generalised linear interactive modeling. B. Francis, M. Green, C. Payne (editors). Clarendon Press, Oxford, UK.
- NAGEL, R. L., AND E. F. ROTH, JR. 1989. Malaria and red cell genetic defects. Blood 74:1213–1221.
- NAGY, E., A. D. MAEDA-MACHANG'U, P. J. KRELL, AND J. B. DERBYSHIRE. 1990. Vaccination of 1-day-old chick with fowlpox virus by the aerosol, drinking water, or cutaneous routes. Avian Diseases 34:677–682.
- NATIONAL PARK SERVICE. 1989. Wildland fire management and environmental assessment, HAVO. An amendment to the natural resources management plan. Unpublished report. Resources Management Division, Hawaii Volcanoes National Park, HI.
- NATIONAL RESEARCH COUNCIL. 1992. The scientific bases for the preservation of the Hawaiian Crow. National Academy Press, Washington, D.C.
- NEI, M. 1987. Molecular evolutionary genetics. Columbia University Press, New York, NY.
- NEI, M., AND J. C. MILLER. 1990. A simple method for estimating average number of nucleotide substitutions within and between populations from restriction data. Genetics 125:873–879.
- NELSON, J. T., AND F. G. FANCY. 1999. A test of the variable circular-plot method where exact density of

- a bird population was known. *Pacific Conservation Biology* 5:139–143.
- NETTLESHIP, D. N., J. BURGER, AND M. GOCHFELD (EDITORS). 1994. Seabirds on islands: threats, case studies and action plans. Series No. 1. Birdlife Conservation. Cambridge, UK.
- NEWELL, W. 1908. Notes on the habits of the Argentine ant or "New Orleans" ant, *Iridomyrmex humilis* Mayr. *Journal of Economic Entomology* 1:21–34.
- NEWTON, I. 1973. Finches. Taplinger Publishing Co., New York.
- NEWTON, I. 1991. Population limitation in birds of prey: a comparative approach. Pp. 3–21 in C. M. Perrins, J.-D. Lebreton, and G. J. M. Hirons (editors). *Bird population studies*. Oxford University Press, Oxford, UK.
- NICE, M. M. 1957. Nesting success in altricial birds. *Auk* 74:305–321.
- NICHOLSON, A. J. 1933. The balance of animal populations. *Journal of Animal Ecology* 2:132–178.
- NILSSON, G. 1981. The bird business, a study of the commercial cage bird trade. Animal Welfare Institute, Washington, D.C.
- NISHIDA, G. M. (EDITOR). 1994. Hawaiian terrestrial arthropod checklist. 2nd edition. B. P. Bishop Museum Technical Report 4, Honolulu, HI.
- NOLAN, V., JR. 1978. The ecology and behavior of the Prairie Warbler *Dendroica discolor*. *Ornithological Monographs* 26:1–595.
- NORRIS, K., M. ANWAR, AND A. F. READ. 1994. Reproductive effort influences the prevalence of haematozoan parasites in great tits. *Journal of Animal Ecology* 63:601–610.
- NTOUMI, F., H. CONTAMIN, C. ROGIER, S. BONNEFOY, J.-F. TRAPE, AND O. MERCIEREAU-PUIJALON. 1995. Age-dependent carriage of multiple *Plasmodium falciparum* merozoite surface antigen-2 alleles in asymptomatic malaria infections. *American Journal of Tropical Medicine and Hygiene* 52:81–88.
- NUNN, G. B., J. COOPER, P. JOUVENTIN, C. J. R. ROBERTSON, AND G. G. ROBERTSON. 1996. Evolutionary relationships among extant albatrosses (Procellariiformes: Diomedeidae) established from complete cytochrome-b gene sequences. *Auk* 113:784–801.
- NUNN, G. B., AND S. E. STANLEY. 1998. Body size effects and rates of cytochrome b evolution in tubenosed seabirds. *Molecular Biology and Evolution* 15:1360–1371.
- NUNN, P. 1990. Recent environmental changes on Pacific Islands. *Geographical Journal* 156:125–140.
- NUR, N. 1993. Establishing demographic parameters of the Marbled Murrelet. Final report to U.S. Fish and Wildlife Service, Marbled Murrelet Recovery Team, Point Reyes Bird Observatory, Stinson Beach, CA.
- NUSSBAUM, R. A. 1980. The Brahminy blind snake (*Ramphotyphlops braminus*) in the Seychelles Archipelago: distribution, variation, and further evidence for parthenogenesis. *Herpetologica* 36:215–221.
- O'BRIEN, S. J., AND E. MAYR. 1991. Bureaucratic mischief: recognizing endangered species and subspecies. *Science* 251:1187–1188.
- OCHMAN, H., AND A. C. WILSON. 1987. Evolution in bacteria: evidence for a universal substitution rate in cellular genomes. *Journal of Molecular Evolution* 26:74–86.
- O'CONNOR, R. J. 1984. The growth and development of birds. John Wiley and Sons, New York, NY.
- OHTA, T. 1976. Role of slightly deleterious mutations in molecular evolution and polymorphisms. *Theoretical Population Biology* 10:254–275.
- OKAMOTO, B. 1975. Parasites of the Pacific Golden Plover and their use as biological markers. *'Elepaio* 36:53–54.
- OLIVER, C. D., AND B. C. LARSON. 1996. Forest stand dynamics. John Wiley and Sons, New York, NY.
- OLIVER, D. L. 1961. *The Pacific Islands*. Doubleday and Co. Inc., Garden City, NY.
- OLSEN, D. E., AND R. E. DOLPHIN. 1978. Avian pox. *Veterinary Medicine/Small Animal Clinician* 73: 1295–1297.
- OLSON, S. L. 1989. Two overlooked holotypes of the Hawaiian flycatcher *Chasiempis* described by Leonhard Stejneger (Aves: Myiagrinae). *Proceedings of the Biological Society of Washington* 102:555–558.
- OLSON, S. L. 1996. The contribution of the voyage of the H. M. S. *Blonde* (1825) to Hawaiian ornithology. *Archives of Natural History* 23:1–42.
- OLSON, S. L., AND H. F. JAMES. 1982a. Fossil birds from the Hawaiian Islands: evidence for wholesale extinction by man before western contact. *Science* 217:633–635.
- OLSON, S. L., AND H. F. JAMES. 1982b. Prodromus of the fossil avifauna of the Hawaiian Islands. *Smithsonian Contributions to Zoology* No. 365. Washington, D.C.
- OLSON, S. L., AND H. F. JAMES. 1984. The role of Polynesians in the extinction of the avifauna of the Hawaiian Islands. Pp. 768–780 in P. S. Martin and R. G. Klein (editors), *Quaternary extinctions: a prehistoric revolution*. University of Arizona Press, Tucson, Arizona.
- OLSON, S. L., AND H. F. JAMES. 1988. Nomenclature of the Kauai Amakihi and Kauai Akialoa (Drepanidini). *'Elepaio* 48:13–14.
- OLSON, S. L., AND H. F. JAMES. 1991. Descriptions of thirty-two new species of birds from the Hawaiian Islands: Part I. Non-passeriformes. *Ornithological Monographs* 45:1–88.
- OLSON, S. L., AND H. F. JAMES. 1994a. A chronology of ornithological exploration in the Hawaiian Islands, from Cook to Perkins. *Studies in Avian Biology* 15:91–102.
- OLSON, S. L., AND H. F. JAMES. 1994b. A specimen of Nuku pu'u (Aves: Drepanidini: *Hemignathus lucidus*) from the Island of Hawai'i. *Pacific Science* 48: 331–338.
- OLSON, S. L., AND H. F. JAMES. 1995. Nomenclature of the Hawaiian 'akialoas and nukupu'u's (Aves: Drepanidini). *Proceedings of the Biological Society of Washington* 108:373–387.
- OLSON, S. L., AND A. WETMORE. 1976. Preliminary diagnoses of extraordinary new genera of birds from Pleistocene deposits in the Hawaiian Islands. *Proceedings of Biological Society of Washington* 89: 247–258.
- OLSON, S. L., AND A. C. ZIEGLER. 1995. Remains of land birds from Lisianski Island, with observations

- on the terrestrial avifauna of the Northwestern Hawaiian Islands. *Pacific Science* 49:111–125.
- OPPLIGER, A., P. CHRISTE, AND H. RICHNER. 1996. Clutch size and malaria resistance. *Nature* 381:565.
- ORING, L. W. 1964. Behavior and ecology of certain ducks during the post breeding period. *Journal of Wildlife Management* 28:223–233.
- ORNITHOLOGICAL SOCIETY OF JAPAN. 1974. Check-list of Japanese Birds. Gakken, Tokyo.
- ORÓS, J., F. RODRÍGUEZ, J. L. RODRÍGUEZ, C. BRACO, AND A. FERNÁNDEZ. 1997. Debilitating cutaneous poxvirus infection in a Hodgson's Grandala (*Grandala coelicolor*). *Avian Diseases* 41:481–483.
- O'SHEA, M. 1996. A guide to the snakes of Papua New Guinea. Independent Publishing, Port Moresby, Papua New Guinea.
- OTA, H. 1998. Introduced amphibians and reptiles of the Ryukyu Archipelago, Japan. Pp. 439–452 in G. H. Rodda, Y. Sawai, D. Chiszar, and H. Tanaka (editors). Problem snake management: habu and the brown tree snake. Cornell University Press, Ithaca, NY.
- OTA, Y., K. R. BERRYMAN, A. G. HULL, T. MIYAUCHI, AND N. ISO. 1988. Age and height distribution of Holocene transgressive deposits in eastern North Island, New Zealand. *Paleogeography, Paleoclimatology, Paleoecology* 68:135–151.
- OTO, M., S. MIYAKE, AND Y. YUASA. 1993. Optimization of nonradioisotopic single strand conformation polymorphism analysis with a conventional minilab gel electrophoresis apparatus. *Analytical Biochemistry* 213:19–22.
- OUSTALET, M. E. 1895. Les mammifères et les oiseaux des Isles Mariannes. *Nouvelles Archives du Muséum D'Histoire Naturelle de Paris*, Series 3, 7:141–228.
- OWEN, M. 1971. The selection of feeding site by White-fronted Geese in winter. *Journal of Applied Ecology* 8:905–917.
- OWEN, M. 1977. The role of wildfowl refuges on agricultural land in lessening the conflict between farmers and geese in Britain. *Biological Conservation* 11:209–222.
- OWEN, M. 1981. Abdominal profile—a condition index for wild geese in the field. *Journal of Wildlife Management* 45:227–230.
- OWEN, M., AND J. M. BLACK. 1991. Geese and their future fortune. *Ibis* 133:S28–S35.
- PAINE, R. T. J. T. WOOTTON, AND P. D. BOERSMA. 1990. Direct and indirect effects of Peregrine Falcon predation on seabird abundance. *Auk* 107:1–9.
- PALMER, R. S. (EDITOR). 1962. *Handbook of North American birds*. Vol. 1. Yale University Press, New Haven, CT.
- PALMER, R. S. (EDITOR). 1976. *Handbook of North American birds*. Waterfowl. Vol. 2, Part 1. Yale University Press, New Haven, CT.
- PARKER, J. W. 1977. Mortality of nestling Mississippi Kites by ants. *Wilson Bulletin* 89:176.
- PARKES, K. C. 1958. Specific relations in the genus *Elanus*. *Condor* 60:139–140.
- PARSONS, T. J., S. L. OLSON, AND M. J. BRAUN. 1993. Unidirectional spread of secondary sexual plumage traits across an avian hybrid zone. *Science* 260:1643–1646.
- PAXINOS, E. A. 1998. A molecular perspective on the evolution of a Hawaiian waterfowl radiation. Ph.D. dissertation. Brown University, Providence, RI.
- PAXINOS, E. A., C. MCINTOSH, K. RALLS, AND R. FLEISCHER. 1997. A non-invasive method for distinguishing among canid species: amplification and enzyme restriction of DNA from dung. *Molecular Ecology* 6:483–486.
- PAYNE, R. B. 1969. Overlap of breeding and molting schedules in a collection of African birds. *Condor* 71:140–145.
- PAZDERKA, F., B. M. LONGENECKER, G. R. S. LAW, AND R. F. RUTH. 1975. The major histocompatibility complex of the chicken. *Immunogenetics* 2:101–130.
- PEALE, T. R. 1848. United States exploring expedition, 1838–1842. *Mammalia and Ornithology*. Vol. 8. C. Sherman, Philadelphia, PA.
- PEARSON, G. L., D. A. PASS, AND E. C. BEGGS. 1975. Fatal pox infection in a Rough-legged Hawk. *Journal of Wildlife Diseases* 11:224–228.
- PEASE, C. M., AND J. A. GRZYBOWSKI. 1995. Assessing the consequences of brood parasitism and nest predation on seasonal fecundity in passerine birds. *Auk* 112:343–363.
- PEKELO, N., JR. 1963. Nature notes from Molokai. *'Elepaio* 24:17–18.
- PÉREZ-RIVERA, R. A. 1991. Change in diet and foraging behavior of the Antillean Euphonia in Puerto Rico after Hurricane Hugo. *Journal of Field Ornithology* 62:474–478.
- PERKINS, R. C. L. 1893. Notes on collecting in Kona, Hawaii. *Ibis* 1893:101–114.
- PERKINS, R. C. L. 1901. An introduction to the study of the *Drepanidae*, a family of birds peculiar to the Hawaiian Islands. *Ibis* 1901:562–585.
- PERKINS, R. C. L. 1903. *Vertebrata*. Pp. 365–466 in D. Sharp (editor). *Fauna Hawaiensis*. Vol. 1, part IV. The University Press, Cambridge, UK.
- PERKINS, S. L., AND J. M. MARTIN. 1999. Conserved polymerase chain reaction primers fail in diagnosis of parasitic infections. *Journal of Parasitology* 85:982–984.
- PERKINS, S. L., S. M. OSGOOD, AND J. J. SCHALL. 1998. Use of PCR for detection of subpatent infections of lizard malaria: implications for epizootiology. *Molecular Ecology* 7:1587–1590.
- PERRINS, C. M. 1979. British tits. *New Naturalist Series*. Collins, London, UK.
- PERRINS, C. M., AND T. A. GEER. 1980. The effect of Sparrowhawks on tit populations. *Ardea* 68:133–142.
- PIERONI, P., C. D. MILLS, C. OHRT, M. A. HARRINGTON, AND K. C. KAIN. 1998. Comparison of ParaSight® F-test and the ICT Malaria PF® test with the polymerase chain reaction for the diagnosis of *Plasmodium falciparum* malaria in travellers. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 92:166–169.
- PIMM, S. L. 1987. The snake that ate Guam. *Trends in Ecology and Evolution* 2:293–295.
- PIMM, S. L. 1991. The balance of nature? Ecological issues in the conservation of species and communities. University of Chicago Press, Chicago, IL.
- PIMM, S. L., H. L. JONES, AND J. DIAMOND. 1988. On the risk of extinction. *American Naturalist* 132:757–785.

- PIMM, S. L., M. P. MOULTON, AND L. J. JUSTICE. 1994. Bird extinctions in the central Pacific. Philosophical Transaction of the Royal Society of London, Series B 344:27–33.
- PIMM, S. L., AND J. W. PIMM. 1982. Resource use, competition, and resource availability in Hawaiian honeycreepers. *Ecology* 63:1468–1480.
- PIOTROWSKA, M., AND T. WESOŁOWSKI. 1989. The breeding ecology and behaviour of *Phylloscopus collybita* in primeval and managed stands of Białowieża Forest (Poland). *Acta Ornithologica* 25:25–76.
- PIRAZZOLI, P. A. 1991. World atlas of Holocene sea-level changes. Elsevier Oceanography, Series 58. Elsevier, Amsterdam, the Netherlands.
- PIRAZZOLI, P. A., AND L. F. MONTAGGIONI. 1988. Holocene sea-level changes in French Polynesia. *Paleogeography, Paleoclimatology, Paleoecology* 68:153–175.
- PLACHY, J., J. R. PINK, AND K. HALA. 1992. Biology of the chicken MHC (*B* complex). *Critical Reviews in Immunology* 12:47–79.
- PLETSCHET, S. M., AND J. F. KELLY. 1990. Breeding biology and nesting success of Palila. *Condor* 92: 1012–1021.
- PODOLSKY, R., D. G. AINLEY, G. SPENCER, L. DE-FOREST, AND N. NUR. 1998. Mortality of Newell's Shearwaters caused by collisions with urban structures on Kauai. *Colonial Waterbirds* 21:20–34.
- PODOLSKY, R., AND S. W. KRESS. 1992. Attraction of the endangered Dark-rumped Petrel to recorded vocalizations in the Galápagos Islands. *Condor* 94: 448–453.
- POLIS, G. A., W. B. ANDERSON, AND R. D. HOLT. 1997. Towards an integration of landscape and foodweb ecology: the dynamics of spatially subsidized food webs. *Annual Review of Ecological Systematics* 29: 289–316.
- POLIS, G. A., AND S. D. HURD. 1996. Linking marine and terrestrial food webs: allochthonous input from the ocean supports high secondary productivity on small island and coastal land communities. *American Naturalist* 147:396–423.
- POLLARD, J. H. 1971. On distance estimators of density in randomly distributed forests. *Biometrics* 27:991–1002.
- POLLOCK, K. H., J. D. NICHOLS, C. BROWNIE, AND J. E. HINES. 1990. Statistical inference for capture-recapture experiments. *Wildlife Monographs* 107:1–97.
- PORTER, J. M., AND S. G. SEALY. 1982. Dynamics of seabird multispecies feeding flocks: age-related feeding behaviour. *Behaviour* 81:91–109.
- PORTER, J. R. 1973. The growth and phenology of *Metrosideros* in Hawaii. Tech. Rep. 27. US/International Biological Program Island Ecosystems IRP, Department of Botany, University of Hawaii, Honolulu, HI.
- POTTS, G. R., AND N. J. AEBISCHER. 1991. Modelling the population dynamics of the Grey Partridge: conservation and management. Pp. 373–390 in C. M. Perrins, J.-D. Lebreton, and G. J. M. Hirons (editors). *Bird population studies*. Oxford University Press, Oxford, UK.
- POULIN, B., G. LEFEBVRE, AND R. MCNEIL. 1992. Tropical avian phenology in relation to abundance and exploitation of food resources. *Ecology* 73:2295–2309.
- PRATT, H. D. 1979. A systematic analysis of the endemic avifauna of the Hawaiian Islands. Ph.D. dissertation. Louisiana State University, Baton Rouge, LA.
- PRATT, H. D. 1980. Intra-island variation in the 'Elepaio on the island of Hawaii. *Condor* 82:449–458.
- PRATT, H. D. 1982. Relationships and speciation of the Hawaiian thrushes. *Living Bird* 19:73–90.
- PRATT, H. D. 1987. Occurrence of the North American Coot (*Fulica americana americana*) in the Hawaiian Islands, with comments on the taxonomy of the Hawaiian Coot. *'Elepaio* 47:25–28.
- PRATT, H. D. 1989. Species limits in akepas (Drepanidinae: *Loxops*). *Condor* 91:933–940.
- PRATT, H. D. 1990. Bird the world's islands now. *Birding* 22:10–15.
- PRATT, H. D. 1992a. Is the Poo-uli a Hawaiian honeycreeper (Drepanidinae)? *Condor* 94:172–180.
- PRATT, H. D. 1992b. Systematics of the Hawaiian "creepers" *Oreomystis* and *Paroreomyza*. *Condor* 94:836–846.
- PRATT, H. D. 1993. Enjoying birds in Hawaii: a bird-finding guide to the fiftieth state. 2nd edition. Mutual Publishing, Honolulu, HI.
- PRATT, H. D. 1994. Avifaunal change in the Hawaiian Islands 1893–1993. *Studies in Avian Biology* 15: 103–118.
- PRATT, H. D. 1996a. Voices of Hawaii's birds: an audio companion to Hawaii's birds. Hawaii Audubon Society, Honolulu, HI, and Library of Natural Sounds, Cornell Laboratory of Ornithology, Ithaca, NY.
- PRATT, H. D. 1996b. Voices of Hawaii's birds, HAS's newest publication. *'Elepaio* 56:33–36.
- PRATT, H. D. In press. The Hawaiian honeycreepers. Oxford University Press, Oxford, UK.
- PRATT, H. D., P. L. BRUNER, AND D. G. BERRETT. 1987. A field guide to the birds of Hawaii and the tropical Pacific. Princeton University Press, Princeton, NJ.
- PRATT, T. K., P. C. BANKO, S. G. FANCY, G. D. LINDSEY, AND J. D. JACOBI. 1997a. Status and management of the Palila, an endangered Hawaiian honeycreeper, 1987–1996. *Pacific Conservation Biology* 3:330–340.
- PRATT, T. K., S. G. FANCY, C. K. HARADA, G. D. LINDSEY, AND J. D. JACOBI. 1994. Identifying sex and age of Akiapolaau. *Wilson Bulletin* 106: 421–430.
- PRATT, T. K., B. GAGNÉ, AND T. CASEY. 1993. Po'ouli again seen at Hanaw'i. *Hawaii's Forests and Wildlife* 8:1, 9.
- PRATT, T. K., C. B. KEPLER, AND T. L. C. CASEY. 1997b. Po'ouli (*Melamprosops phaeosoma*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 272. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- PRIMACK, R. G. 1993. *Essentials of conservation biology*. Sinauer, Sunderland, Massachusetts.
- PROP, J., AND C. DEERENBERG. 1991. Spring staging in Brent Geese *Branta bernicla*: feeding constraints and the impact of diet on the accumulation of body reserves. *Oecologia* 87:19–28.
- PROP, J., AND T. VULNIK. 1992. Digestion by Barnacle Geese in the annual cycle: the interplay between re-

- tention time and food quality. *Functional Ecology* 6: 80–189.
- PUKUI, M. K., AND S. H. ELBERT. 1986. Hawaiian dictionary. Revised and enlarged edition. University of Hawaii Press, Honolulu, HI.
- PUKUI, M. K., S. H. ELBERT, AND E. T. MOOKINI. 1976. Place names of Hawaii. Revised and expanded edition. University of Hawaii Press, Honolulu, HI.
- PULLIAM, H. R. 1975. Diet optimization with nutrient constraints. *American Naturalist* 109:765–768.
- PULLIAM, H. R. 1988. Sources, sinks, and population regulation. *American Naturalist* 132:652–661.
- PYKE, G. H. 1980. The foraging behaviour of Australian honeyeaters: a review and some comparisons with hummingbirds. *Australian Journal of Ecology* 5:343–369.
- PYLE, P., S. N. G. HOWELL, R. P. YUNICK, AND D. F. DESANTE. 1987. Identification guide to North American passerines. Slate Creek Press, Bolinas, CA.
- PYLE, R. L. 1983. Hawaiian Islands region. *American Birds* 37:914–916.
- PYLE, R. L. 1985a. Hawaiian Islands region. *American Birds* 37:351–353.
- PYLE, R. L. 1985b. Hawaiian Islands region. *American Birds* 37:964–965.
- PYLE, R. L. 1987a. Hawaiian Islands region. *American Birds* 41:148–150.
- PYLE, R. L. 1987b. Hawaiian Islands region. *American Birds* 41:491–493.
- PYLE, R. L. 1988. Hawaiian Islands region. *American Birds* 42:491–493.
- PYLE, R. L. 1989. Hawaiian Islands region. *American Birds* 43:369–371.
- PYLE, R. L. 1990. Native breeding birds of Hawaii. 'Elepaio 50:99–100.
- PYLE, R. L. 1992. Check-list of the birds of Hawaii—1992. 'Elepaio 52:53–62.
- PYLE, R. L. 1993. Hawaiian Islands region. *American Birds* 47:302–304.
- PYLE, R. L. 1994. Hawaiian Islands region. *Audubon Field Notes* 48:990–992.
- PYLE, R. L. 1997. Checklist of the birds of Hawaii—1997. 'Elepaio 57:129–138.
- PYLE, R. L. 2000. SIGHTINGS database. Occurrence and status of birds in Hawaii projects. B. P. Bishop Museum, Honolulu, HI.
- QUINN, T. W. 1992. The genetic legacy of mother goose: phylogeographic patterns of Lesser Snow Goose *Chen caerulescens caerulescens* maternal lineages. *Molecular Ecology* 1:105–117.
- QUINN, T. W., G. F. SHIELDS, AND A. C. WILSON. 1991. Affinities of the Hawaiian Goose based on two types of mitochondrial DNA data. *Auk* 108:585–593.
- QUINN, T. W., AND B. N. WHITE. 1987a. Analysis of DNA sequence variation. Pp. 163–198 in F. Cooke and P. A. Buckley (editors). *Avian genetics: a population and ecological approach*. Academic Press, London, UK.
- QUINN, T. W., AND B. N. WHITE. 1987b. Identifications of restriction-fragment-length-polymorphisms in genomic DNA of the lesser snow goose (*Anser caerulescens caerulescens*). *Molecular Biology and Evolution* 4:126–143.
- QUISENBERRY, W. B., AND G. D. WALLACE. 1959. Arthropod-borne virus and encephalitis potentials in Hawaii. *Hawaii Medical Journal* 19:29–31.
- RADUNZEL, L. A., D. M. MUSCHITZ, V. M. BAULDRY, AND P. ARCESE. 1997. A long-term study of the breeding success of Eastern Bluebirds by year and cavity type. *Journal of Field Ornithology* 68:7–18.
- RAFFAELI, H. A. 1977. Comments on the extinction of *Loxigilla portoricensis grandis* in St. Kitts, Lesser Antilles. *Condor* 79:389–390.
- RAIKOW, R. J. 1976. Pelvic appendage myology of the Hawaiian honeycreepers (Drepanidae). *Auk* 93: 774–792.
- RAIKOW, R. J. 1977. The origin and evolution of the Hawaiian honeycreepers (Drepanidae). *Living Bird* 15:95–117.
- RAIKOW, R. J. 1978. Appendicular myology and relationships of the New World nine-primaried oscines (Aves: Passeriformes). *Bulletin of Carnegie Museum of Natural History* No. 7.
- RAIKOW, R. J. 1985. Problems in avian classification. *Current Ornithology* 2:187–212.
- RAIKOW, R. J. 1986. Reshaping the avian 'tree of life.' *Point Reyes Bird Observatory Newsletter* 74:8–13.
- RAIKOW, R. J., A. H. BLEDSOE, B. A. MYERS, AND C. J. WELSH. 1990. Individual variation in avian muscles and its significance for the reconstruction of phylogeny. *Systematic Zoology* 39:362–370.
- RAIKOW, R. J., S. R. BORECKY, AND S. L. BERMAN. 1979. The evolutionary re-establishment of a lost ancestral muscle in the bowerbird assemblage. *Condor* 81:203–206.
- RALLS, K., J. D. BALLOU, AND A. TEMPLETON. 1988. Estimates of lethal equivalents and the cost of inbreeding in mammals. *Conservation Biology* 2:185–193.
- RALPH, C. J., AND S. G. FANCY. 1994a. Demography and movements of the endangered Akepa and Hawaii Creeper. *Wilson Bulletin* 106:615–628.
- RALPH, C. J., AND S. G. FANCY. 1994b. Timing of breeding and molting in six species of Hawaiian honeycreepers. *Condor* 96:151–161.
- RALPH, C. J., AND S. G. FANCY. 1994c. Demography and movements of the Omao (*Myadestes obscurus*). *Condor* 96:503–511.
- RALPH, C. J., AND S. G. FANCY. 1995. Demography and movements of Apapane and Iiwi in Hawaii. *Condor* 97:729–742.
- RALPH, C. J., AND S. G. FANCY. 1996. Aspects of the life history and foraging ecology of the endangered Akiapolaau. *Condor* 98:312–321.
- RALPH, C. J., S. G. FANCY, AND T. D. MALE. 1998. Demography of an introduced Red-billed Leiothrix population in Hawaii. *Condor* 100:468–473.
- RALPH, C. J., G. R. GEUPEL, P. PYLE, T. E. MARTIN, AND D. F. DESANTE. 1993. Handbook of field methods for monitoring landbirds. Gen. Tech. Rep. PSW-GTR-144. USDA Forest Service Pacific Southwest Research Station, Albany, CA.
- RALPH, C. J., G. L. HUNT, M. G. RAPHAEL, AND J. F. PIATT (EDITORS). 1995a. *Ecology and conservation of the Marbled Murrelet*. USDA Forest Service General Technical Report PSW-GTR-152. Berkeley, CA.
- RALPH, C. J., AND B. D. MAXWELL. 1984. Relative effects of human and feral hog disturbance on a wet

- forest in Hawaii. *Biological Conservation* 30:291–303.
- RALPH, C. J., J. R. SAUER, AND S. DROEGE (EDITORS). 1995b. Monitoring bird populations by point counts. General Technical Report PSW-GTR-149. USDA Forest Service Pacific Southwest Research Station, Albany, CA.
- RALPH, C. J., AND J. M. SCOTT (EDITORS). 1981. Estimating numbers of terrestrial birds. Studies in Avian Biology Number 6. Cooper Ornithological Society, Allen Press, Inc., Lawrence, KS.
- RALPH, C. J., AND C. VAN RIPER, III. 1985. Historical and current factors affecting Hawaiian native birds. *Bird Conservation* 2:7–42.
- RAMSEY, F. L., AND J. M. SCOTT. 1981. Analysis of bird survey data using a modification of Emlen's method. *Studies in Avian Biology* 6:483–487.
- RAMSEY, F. L., V. WILDMAN, AND J. ENGBRING. 1987. Covariate adjustments to effective area in variable-area wildlife surveys. *Biometrics* 43:1–11.
- RAND, D. M. 1994. Thermal habit, metabolic rate and the evolution of mitochondrial DNA. *Trends in Ecology and Evolution* 9:125–131.
- RANDI, E. 1996. A mitochondrial cytochrome b phylogeny of the *Alectoris* partridges. *Molecular Phylogenetics and Evolution* 7:214–227.
- RAPPOLE, J. H., AND A. R. TIPTON. 1991. New harness design for attachment of radio transmitters to small passerines. *Journal Field Ornithology* 62:335–337.
- RAUZON, M. J. 1991. Save our shearwaters! *Living Bird Quarterly* 10(2):28–32.
- RAUZON, M. J. 1992. Final fish and wildlife management plan for Marine Corps Air Station, Kaneohe Bay, O'ahu, Hawaii. Vols. 1, 2. Prepared by Marine Endeavors, Berkeley, CA.
- RAUZON, M. J., L. MCNEIL, AND L. T. TANINO. 1997. Biological investigations at Nu'uupia Ponds Wildlife Management Area, Kaneohe Bay, Marine Corps Base Hawaii. Final report. Prepared by Scientific Consultant Services/Cultural Resource Management Services (SCS/CRMS), Inc., Honolulu, HI.
- RAUZON, M. J., AND L. TANINO. 1995. Endangered Hawaiian Stilt survey and assessment for improved management options, Marine Corps Base Hawaii (MCBH), Kaneohe Bay. Final report. Prepared by Marine Endeavors, Oakland, CA.
- RAVE, E. H., R. C. FLEISCHER, F. DUVALL, AND J. M. BLACK. 1994. Genetic analyses through DNA fingerprinting of captive populations of Hawaiian Geese. *Conservation Biology* 8:744–751.
- RAYNER, J. M. V. 1988. Form and function in avian flight. *Current Ornithology* 5:1–66.
- RECHER, H. F., AND J. A. RECHER. 1969. Comparative foraging efficiency of adult and immature Little Blue Herons (*Florida caerulea*). *Animal Behaviour* 17: 320–322.
- REED, J. R., J. L. SINCOCK, AND J. P. HAILMAN. 1985. Light attraction in endangered procellariiform birds: reduction by shielding upward radiation. *Auk* 102: 377–383.
- REED, J. M. 1996. Using statistical probability to increase confidence of inferring species extinction. *Conservation Biology* 10:1283–1285.
- REEDER, J. C., AND G. V. BROWN. 1996. Antigenic variation and immune evasion in *Plasmodium falcipa-* rum malaria. *Immunology and Cell Biology* 74:546–554.
- REICHARD, S. H., AND C. W. HAMILTON. 1997. Predicting invasions of woody plants introduced into North America. *Conservation Biology* 11:193–203.
- REICHEL, J. D., AND P. O. GLASS. 1989. Micronesian Starling predation on seabird eggs. *Emu* 90:135–136.
- REICHENOW, A. 1899. Aufzeichnungen. *Ornithologische Monatsberichte* 7:41.
- REICHENOW, A. 1901. Eine auffallende Vogelzugstrasse vom nordwestlichen nordamerika nach Polynesien. *Ornithologische Monatsberichte* 2:17–18.
- REIMER, N. J. 1994. Distribution and impact of alien ants in vulnerable Hawaiian ecosystems. Pp. 11–22 in D. F. Williams (editor). *Exotic ants: biology, impact, and control of introduced species*. Westview Press, Boulder, CO.
- REITER, P. 1987. A revised version of the CDC gravid mosquito trap. *Journal of the American Mosquito Control Association* 3:325–327.
- REYNOLDS, M. H., B. A. COOPER, AND R. H. DAY. 1997a. Radar study of seabirds and bats on windward Hawai'i. *Pacific Science* 51:97–106.
- REYNOLDS, M. H., AND G. L. RITCHOTTE. 1997. Evidence of Newell's Shearwater breeding in Puna District, Hawaii. *Journal of Field Ornithology* 68:26–32.
- REYNOLDS, M. H., AND T. J. SNETSINGER. 1994. Critically endangered bird species located on East Maui. *Hawaii's Forests and Wildlife* 9:1–3.
- REYNOLDS, M. H., T. J. SNETSINGER, AND C. M. HERRMANN. 1997b. Kauai's endangered solitaires: update on population status and distribution 1996. *Transactions of the Western Section of the Wildlife Society* 33:49–55.
- REYNOLDS, R. T., J. M. SCOTT, AND R. A. NUSSBAUM. 1980. A variable circular-plot method for estimating bird numbers. *Condor* 82:309–313.
- RHYMER, J. M., AND D. S. SIMBERLOFF. 1996. Extinction by hybridization and introgression. *Annual Review of Ecology and Systematics* 27:83–109.
- RHYMER, J. M., M. J. WILLIAMS, AND M. J. BRAUN. 1994. Mitochondrial analysis of gene flow between New Zealand Mallards (*Anas platyrhynchos*) and Grey Ducks (*A. superciliosa*). *Auk* 111:970–978.
- RIBIC, C. A., D. G. AINLEY, AND L. B. SPEAR. 1992. Effects of El Niño and La Niña on seabird assemblages in the Equatorial Pacific. *Marine Ecology Progress Series* 80:109–124.
- RICE, J., R. D. OHMART, AND B. W. ANDERSON. 1983. Habitat selection attributes of an avian community: a discriminant analysis investigation. *Ecological Monographs* 53:263–290.
- RICHARDS, L. P., AND P. H. BALDWIN. 1953. Recent records of some Hawaiian honeycreepers. *Condor* 55: 221–222.
- RICHARDS, L. P., AND W. J. BOCK. 1973. Functional anatomy and adaptive evolution of the feeding apparatus in the Hawaiian honeycreeper genus *Loxops* (Drepanidae). *Ornithological Monographs* 15.
- RICHARDSON, F. 1949. Status of native land birds on Molokai. *Pacific Science* 3:226–230.
- RICHARDSON, F. 1954. Report on the two native passerines of Nihoa, Hawaii. *Condor* 56:224.

- RICHARDSON, F. 1957. The breeding cycles of Hawaiian sea birds. B. P. Bishop Museum Bulletin No. 218. Bishop Museum Press, Honolulu, HI.
- RICHARDSON, F. 1963. Birds of Lehua Island off Nihihau, Hawaii. *Elepaio* 23:43–45.
- RICHARDSON, F., AND J. BOWLES. 1964. A survey of the birds of Kauai, Hawaii. B. P. Bishop Museum Bulletin No. 227. Bishop Museum Press, Honolulu, HI.
- RICHARDSON, F., AND D. H. WOODSIDE. 1954. Rediscovery of the nesting of the Dark-rumped Petrel in the Hawaiian Islands. *Condor* 56:323–327.
- RICHNER, H., P. CHRISTE, AND A. OPLLIGER. 1995. Paternal investment affects prevalence of malaria. *Proceedings of the National Academy of Sciences (USA)* 92:1192–1194.
- RICKLEFS, R. E. 1968. Patterns of growth in birds. *Ibis* 110:419–451.
- RICKLEFS, R. E. 1969. The nesting cycle of songbirds in tropical and temperate regions. *Living Bird* 8: 165–175.
- RICKLEFS, R. E. 1973. Fecundity, mortality and avian demography. Pp. 366–435 in D. S. Farner (editor). *Breeding biology of birds*. National Academy of Sciences, Washington, D.C.
- RICKLEFS, R. E. 1974. Energetics of reproduction in birds. Pp. 152–202 in R. E. Paynter, Jr. (editor). *Avian energetics*. Publications of the Nuttall Ornithological Club, No. 15. Cambridge, MA.
- RICKLEFS, R. E. 1975. Patterns of growth in birds. III. Growth and development of the Cactus Wren. *Condor* 77:35–45.
- RICKLEFS, R. E. 1992. Embryonic development period and the prevalence of avian blood parasites. *Proceedings of the National Academy of Sciences (USA)* 89:4722–4725.
- RICKLEFS, R. E., AND D. SCHLUTER. 1993. Species diversity in ecological communities: historical and geographical perspectives. University of Chicago Press, Chicago, IL.
- RIDLEHUBER, K. T. 1982. Fire ant predation on wood duck ducklings and piped eggs. *Southwestern Naturalist* 27:222.
- RIENECKER, W. C. 1987. Migration and distribution of pintails banded in California. *California Fish and Game* 73:139–155.
- RIENECKER, W. C. 1988. Additional notes on migration and distribution of pintails banded in California. *California Fish and Game* 74:61–63.
- RILEY, E. M. 1996. The role of MHC- and non-MHC-associated genes in determining the human immune response to malaria antigens. *Parasitology* 112:S39–S51.
- RIPLEY, S. D. 1960. Laysan Teal in captivity. *Wilson Bulletin* 72:244–247.
- RIPLEY, S. D. 1962. Brief comments on the thrushes. *Postilla (Yale Peabody Museum Natural History)* 63: 1–5.
- RIPLEY, S. D. 1977. Rails of the world. Davide. R. Goodine, Boston, MA.
- ROBERTSON, H. A., J. R. HAY, E. K. SAUL, AND G. V. MCCORMACK. 1994. Recovery of the Kakarori: an endangered forest bird of the Cook Islands. *Conservation Biology* 8:1078–1086.
- ROCK, J. F. 1913. The indigenous trees of the Hawaiian Islands. Privately published, Honolulu, HI.
- ROCK, J. F. 1974. The indigenous trees of the Hawaiian Islands. Reprinted edition. Charles E. Tuttle Co., Rutland, VT, and Tokyo, Japan.
- RODDA, G. H., AND T. H. FRITTS. 1992. The impact of the introduction of the colubrid snake *Boiga irregularis* on Guam's lizards. *Journal of Herpetology* 26:166–174.
- RODDA, G. H., T. H. FRITTS, AND D. CHISZAR. 1997. The disappearance of Guam's wildlife. *Bioscience* 47:565–574.
- RODDA, G. H., T. H. FRITTS, AND P. J. CONRY. 1992. Origin and population growth of the Brown Tree Snake, *Boiga irregularis*, on Guam. *Pacific Science* 46:46–57.
- RODDA, G. H., T. H. FRITTS, M. J. MCCOID, AND E. W. CAMPBELL, III. 1998. An overview of the biology of the brown tree snake, *Boiga irregularis*, a costly introduced pest on Pacific Islands. Pp. 44–80 in G. H. Rodda, Y. Sawai, D. Chiszar, and H. Tanaka (editors). *Problem snake management: habu and the brown tree snake*. Cornell University Press, Ithaca, NY.
- RODRIGUEZ-ESTRELLA, R., G. ARNAUD, S. A. CARDENAS, AND A. RODRIGUEZ. 1991. Predation by feral cats on birds at Isla Socorro, Mexico. *Western Birds* 22: 141–142.
- ROGERS, M. J., G. A. McCONKEY, J. LI, AND T. F. MCCUTCCHAN. 1995. The ribosomal DNA loci in *Plasmodium falciparum* accumulate mutations independently. *Journal of Molecular Biology* 254: 881–891.
- ROHWER, F. C., AND M. G. ANDERSON. 1988. Female-biased philopatry, monogamy, and the timing of pair formation in waterfowl. *Current Ornithology* 5:187–221.
- ROOD, J. P. 1986. Ecology and social evolution in mongooses. Pp. 131–152 in D. I. Rubenstein and R. Wrangham (editors). *Ecological aspects of social evolution—birds and mammals*. Princeton University Press, Princeton, NJ.
- ROSE, R. G., S. CONANT, AND E. P. KJELLGREN. 1993. Hawaiian standing kāhilí in the Bishop Museum: an ethnological and biological analysis. *Journal of the Polynesian Society* 102:27–304.
- ROSEN, P. C., AND C. R. SCHWALBE. 1995. Bullfrogs: introduced predators in Southwestern wetlands. Pp. 452–454 in E. T. LaRoe, G. S. Farris, C. E. Puckett, P. D. Doran, and M. J. Mac (editors). *Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems*. U.S. Department of the Interior, National Biological Service, Washington, D.C.
- ROTHSCHILD, W. 1892. Descriptions of seven new species of birds from the Sandwich Islands. *Annual Magazine of Natural History* 60:108–112.
- ROTHSCHILD, W. 1893–1900. The avifauna of Laysan and the neighboring islands. 3 vol. R. H. Porter, London, UK.
- ROUSE, I. 1986. *Migrations in prehistory*. Yale University Press, New Haven, CT.
- ROWLEY, I., AND E. RUSSELL. 1991. Demography of passerines in the temperate southern hemisphere. Pp. 22–44 in C. M. Perrins, J.-D. Lebreton, and G. J. M. Hirons (editors). *Bird population studies: rele-*

- vance to conservation and management. Oxford University Press, New York, NY.
- RUDDY, D. A., G. S. KRONMAL, V. K. LEE, G. A. MINISTER, L. QUINTANA, R. DOMINGO, JR., N. C. MYER, A. IRRINKI, E. E. McCLELLAND, A. FULLAN, F. A. MAPA, T. MOORE, W. THOMAS, D. B. LOEB, C. HARMON, Z. TSUCHIHASHI, R. K. WOLFF, R. C. SCHATZMAN, AND J. N. FEDER. 1997. A 1.1-Mb transcript map of the hereditary hemochromatosis locus. *Genome Research* 7:441–456.
- RUSSO, C.-A. M., N. TAKEZAKI, AND M. NEI. 1995. Molecular phylogeny and divergence times of Drosophilid species. *Molecular Biology and Evolution* 12: 391–404.
- RYAN, P. G. 1991. The impact of the commercial lobster fishery on seabirds at the Tristan da Cunha Islands, South Atlantic Ocean. *Biological Conservation* 57:339–350.
- RYAN, P. G., AND B. P. WATKINS. 1989. The influences of physical factors and orthogenic products on plant and arthropod abundance at an inland Nunatak group in Antarctica. *Polar Biology* 10:151–160.
- SABO, S. R. 1980. Niche and habitat relations in subalpine bird communities of the White Mountains of New Hampshire. *Ecological Monographs* 50:241–259.
- SABO, S. R. 1982. The rediscovery of Bishop's 'O'o on Maui. *'Elepaio* 42:69–70.
- SAITOU, N., AND M. NEI. 1987. The neighbor-joining method: a new method for reconstructing phylogenetic trees. *Molecular Biology and Evolution* 4:406–425.
- SAKAI, H. F., AND J. R. CARPENTER. 1990. The variety and nutritional value of foods consumed by Hawaiian Crow nestlings, an endangered species. *Condor* 92:220–228.
- SAKAI, H. F., AND T. C. JOHANOS. 1983. The nest, egg, young, and aspects of the life history of the endangered Hawaii Creeper. *Western Birds* 14:73–84.
- SAKAI, H. F., AND C. J. RALPH. 1980a. Nest construction of the Hawaiian Creeper near Volcano, Hawaii. *'Elepaio* 40:117–119.
- SAKAI, H. F., AND C. J. RALPH. 1980b. An observation of 'Akia'apola'au nest construction. *'Elepaio* 41:4–5.
- SAKAI, H. F., C. J. RALPH, AND C. D. JENKINS. 1986. Foraging ecology of the Hawaiian Crow, an endangered generalist. *Condor* 88:211–219.
- SALOMONSEN, F. 1968. The moult migration. *Wildfowl* 19:5–24.
- SALOMONSEN, J., D. DUNON, K. SKJØDT, D. THORPE, O. VAINIO, AND J. KAUFMAN. 1991. Chicken major histocompatibility complex-encoded B-G antigens are found on many cell types that are important for the immune system. *Proceedings of the National Academy of Sciences (USA)* 88:1359–1363.
- SAS INSTITUTE, INC. 1985. SAS user's guide. Version 5. SAS Institute, Inc., Cary, NC.
- SAS INSTITUTE, INC. 1987. SAS/STAT guide for personal computers. Version 6. SAS Institute, Inc., Cary, NC.
- SASTRAPRADJA, D. S. 1965. A study of the variation in wood anatomy of Hawaiian *Metrosideros* (Myrtaceae). Ph.D. dissertation. University of Hawaii, Honolulu, HI.
- SATCHELL, M. 1997. Parks in peril. *U.S. News and World Report*, July 21, 1997, pp. 23–28.
- SATO, K., H. ABPLANALP, D. NAPOLITANO, AND J. REID. 1992. Effects of heterozygosity of major histocompatibility complex haplotypes on performance of leghorn hens sharing a common inbred background. *Poultry Science* 71:18–26.
- SATTA, Y., C. O'HUIGIN, N. TAKAHATA, AND J. KLEIN. 1995. Intensity of overdominant selection at the major histocompatibility complex loci. Pp. 179–186 in M. Nei and N. Takahata (editors). *Current topics on molecular evolution*. Pennsylvania State University/Graduate School for Advanced Studies, Hayama, Japan.
- SAUER, J. R., AND B. K. WILLIAMS. 1989. Generalized procedures for testing hypotheses about survival or recovery rates. *Journal of Wildlife Management* 53: 137–142.
- SAUNDERS, A. 1994. Translocations in New Zealand: an overview. Pp. 43–46 in M. Serna (editor). *Reintroduction biology of Australian and New Zealand fauna*. Surrey Beatty and Sons, Sydney, Australia.
- SAUNDERS, D. A., G. T. SMITH, AND I. ROWLEY. 1982. The availability and dimensions of tree hollows that provide nest sites for cockatoos (Psittaciformes) in Western Australia. *Australian Wildlife Research* 9: 541–556.
- SAVAGE, H. M., C. J. MITCHELL, M. ROPPUL, L. T. CASTRO, R. L. KEPPEL, AND S. P. FLOOD. 1993. Mosquito faunal survey of Saipan, Mariana Islands (Diptera: Culicidae): taxonomy and larval ecology. *Mosquito Systematics* 25:17–24.
- SAVIDGE, J. A. 1986. The role of disease and predation in the decline of Guam's avifauna. Ph.D. dissertation. University Illinois, Champaign, IL.
- SAVIDGE, J. A. 1987a. Extinction of an island forest avifauna by an introduced snake. *Ecology* 68:660–668.
- SAVIDGE, J. A. 1987b. The ecological and economic impacts of an introduced snake on Guam and its threat to other Pacific islands. *Pacific Life and Environmental Studies* 3:29–34.
- SAVIDGE, J. A. 1988. Food habits of *Boiga irregularis*, an introduced predator on Guam. *Journal of Herpetology* 22:275–282.
- SAVIDGE, J. A., L. SILEO, AND L. M. SIEGFRIED. 1992. Was disease involved in the decimation of Guam's avifauna? *Journal of Wildlife Diseases* 28:206–214.
- SCHAUINSLAND, H. H. 1899. Three months on a coral island (Laysan). (Translated from the German by M. D. F. Udvardy). *Atoll Research Bulletin* 432 [1996].
- SCHILZ, A. J. 1996. Cultural resources management plan, Marine Corps Base Hawaii, Kaneohe Bay, Island of O'ahu, Hawaii. Final report. Prepared by Ogden Environmental and Energy Services Co., Inc., Honolulu, Hawai'i.
- SCHLANGER, S. O., AND G. W. GILLETT. 1976. A geological perspective of the upland biota of Laysan Atoll (Hawaiian Islands). *Biological Journal of the Linnean Society* 8:205–216.
- SCHMIDT, K. P., AND R. F. INGER. 1957. *Living reptiles of the world*. Doubleday and Co., Garden City, NY.
- SCHMITT, R. C. 1971. New estimates of the precensused population of Hawaii. *Journal of Polynesian Society* 80:237–243.

- SCHNEE, P. 1901. Eine auffallende Vogelzugstrasse vom nordwestlichen Nordamerika nach Polynesien. *Ornithologische Monatsberichte* 9:131–132.
- SCHREIBER, R. W., AND E. A. SCHREIBER. 1984. Central Pacific seabirds and the El Niño Southern Oscillation: 1982 to 1983 perspectives. *Science* 225:713–716.
- SCHROEDER, T. 1993. Climate controls. Pp. 12–36 in M. Sanderson (editor). *Prevailing trade winds: climate and weather in Hawaii*. University of Hawaii Press, Honolulu, HI.
- SCHUETT, G. W., P. J. FERNANDEZ, W. F. GERGITS, N. J. CASNA, D. CHISZAR, H. M. SMITH, J. B. MITTON, S. P. MACKESSY, R. A. ODUM, AND M. J. DEMLONG. 1997. Production of offspring in the absence of males: evidence for facultative parthenogenesis in bisexual snakes. *Herpetological Natural History* 5: 1–10.
- SCHULTZ, F. T., AND W. E. BRILES. 1953. The adaptive value of blood group genes in chickens. *Genetics* 38: 34–50.
- SCHWARTZ, A., AND R. W. HENDERSON. 1991. Amphibians and reptiles of the West Indies: descriptions, distributions, and natural history. University of Florida Press, Gainesville, FL.
- SCHWARTZ, C. W., AND E. R. SCHWARTZ. 1949. A reconnaissance of the game birds in Hawaii. Board of Commissioners of Agriculture and Forestry, Hilo, HI.
- SCOTT, J. M., AND P. W. BANKO. 2000. Hawaiian goose (*Branta sandvicensis*). Pp. 142–146 in R. P. Reading and B. Miller (editors). *Endangered animals: a reference guide to conflicting issues*. Greenwood Press, Westport, CT.
- SCOTT, J. M., S. CONANT, AND H. D. PRATT. 1979. Field identification of the Hawaiian Creeper on the island of Hawaii. *Western Birds* 10:71–80.
- SCOTT, J. M., AND C. B. KEPLER. 1985. Distribution and abundance of Hawaiian native birds: A status report. *Bird Conservation* 2:43–70. University of Wisconsin Press, Madison, WI.
- SCOTT, J. M., C. B. KEPLER, C. VAN RIPER, III, AND S. I. FEFER. 1988. Conservation of Hawaii's vanishing avifauna. *Bioscience* 38:238–253.
- SCOTT, J. M., C. B. KEPLER, C. VAN RIPER, III, C. STONE, AND S. I. FEFER. 1989. Reply to: Integrated conservation strategy for Hawaiian forest birds. *Bio-science* 39:476–479.
- SCOTT, J. M., S. MOUNTAINSPRING, F. L. RAMSEY, AND C. B. KEPLER. 1986. Forest bird communities of the Hawaiian Islands: their dynamics, ecology, and conservation. *Studies in Avian Biology* No. 9:1–431.
- SCOTT, J. M., S. MOUNTAINSPRING, C. VAN RIPER, III, C. B. KEPLER, J. D. JACOBI, T. A. BURR, AND J. G. GIFFIN. 1984. Annual variation in the distribution, abundance, and habitat response of the Palila (*Loxoides bailleui*). *Auk* 101:647–664.
- SCOTT, J. M., J. L. SINCOCK, AND A. J. BERGER. 1980. Records of nests, eggs, nestlings, and cavity nesting of endemic passerine birds in Hawaii. *'Elepaio* 40: 163–168.
- SCOTT, J. M., D. H. WOODSIDE, AND T. L. C. CASEY. 1977. Observations of birds in the Molokai Forest Reserve, July 1975. *'Elepaio* 38:25–27.
- SCOTT, M. E. 1988. The impact of infection and disease on animal populations: implications for conservation biology. *Conservation Biology* 2:40–56.
- SCOTT, P. 1962. A project for a Nene park in Hawaii. *'Elepaio* 22:80–81.
- SCOWCROFT, P. G. 1983. Tree cover changes in māmane (*Sophora chrysophylla*) forests grazed by sheep and cattle. *Pacific Science* 37:109–119.
- SCOWCROFT, P. G. 1992. Role of decaying logs and other organic seedbeds in natural regeneration of Hawaiian forest species on abandoned montane pasture. USDA Forest Service General Technical Report PSW-129:67–73. U.S. Forest Service, Berkeley, CA.
- SCOWCROFT, P. G., AND J. G. GIFFIN. 1983. Feral herbivores suppress māmane and other browse species on Mauna Kea, Hawaii. *Journal of Range Management* 36:638–645.
- SCOWCROFT, P. G., AND R. HOBDY. 1987. Recovery of montane koa parkland vegetation from feral goats. *Biotropica* 19:208–215.
- SCOWCROFT, P. G., AND H. F. SAKAI. 1983. Impact of feral herbivores on māmane forests of Mauna Kea, Hawaii: bark stripping and diameter class structure. *Journal of Range Management* 36:495–498.
- SCOWCROFT, P. G., AND H. F. SAKAI. 1984. Stripping of *Acacia koa* bark by rats in Hawaii and Maui. *Pacific Science* 38:80–86.
- SEARCY, W. A. 1978. Foraging success in three age classes of Glaucous-winged Gulls. *Auk* 95:586–588.
- SEDINGER, J. S. 1997. Adaptations to and consequences of an herbivorous diet in grouse and waterfowl. *Condor* 99:314–326.
- SEDINGER, J. S., AND P. L. FLINT. 1991. Growth rate is negatively correlated with hatch date in black brant. *Ecology* 72:496–502.
- SEDINGER, J. S., AND D. G. RAVELING. 1984. Dietary selectivity in relation to availability and quality of food for goslings of Cackling Geese. *Auk* 101:295–306.
- SEDINGER, J. S., AND D. G. RAVELING. 1986. Timing of nesting by Canada Geese in relation to the phenology and availability of their food plants. *Journal of Animal Ecology* 55:1083–1102.
- SEIGEL, R. A., AND N. B. FORD. 1987. Reproductive ecology. Pp. 210–252 in R. A. Seigel, J. T. Collins, and S. S. Novak (editors). *Snakes: ecology and evolutionary biology*. McGraw-Hill Publishing Co., New York, NY.
- SERNA, M. (EDITOR). 1995. *Reintroduction biology of Australia and New Zealand fauna*. Surrey Beatty and Sons, Sydney, Australia.
- SETO, N. 1994. Effects of rat predation on Bonin Petrel (*Pterodroma hypoleuca*) reproductive success on Midway Atoll. *'Elepaio* 54:50–51.
- SETO, N. W. H. 1995. Effects of rat (*Rattus rattus*) predation on Bonin Petrel (*Pterodroma hypoleuca*) reproductive success. *Pacific Seabirds* 22:43.
- SETO, N. W. H., AND S. CONANT. 1996. The effects of rat (*Rattus rattus*) predation on reproductive success of the Bonin Petrel (*Pterodroma hypoleuca*) on Midway Atoll. *Colonial Waterbirds* 19:171–185.
- SHAFFER, M. L. 1981. Minimum population sizes for species conservation. *BioScience* 31:131–134.
- SHALLENBERGER, R. J., AND H. D. PRATT. 1978. Recent observations and field identification of the Oahu

- Creeper (*Loxops maculata maculata*). 'Elepaio 38: 135–140.
- SHALLENBERGER, R. J., AND G. K. VAUGHN. 1978. Avifaunal survey in the central Ko'olau Range, Oahu. Ahuiiman Productions, Honolulu, HI.
- SHANNON, L. J., AND R. J. M. CRAWFORD. 1999. Management of the African Penguin *Spheniscus demersus*—insights from modeling. Marine Ornithology 27:119–128.
- SHAW, S. L. 1981. A history of tropical cyclones in the central North Pacific and the Hawaiian Islands: 1832–1979. National Weather Service, NOAA, U.S. Department of Commerce, Washington, D.C.
- SHIELDS, G. F., AND A. C. WILSON. 1987. Calibration of mitochondrial DNA evolution in geese. Journal of Molecular Evolution 24:212–217.
- SHIGO, A. L. 1984. Compartmentalization: a conceptual framework for understanding how trees grow and defend themselves. Annual Review of Phytopathology 22:189–214.
- SHIGO, A. L. 1991. Modern arboriculture. Shigo and Trees, Associates, Durham, NH.
- SHIINA, T., A. ANDO, T. IMANISHI, H. KAWATA, K. HANZAWA, T. GOJOBORI, H. INOKO, AND S. WATANABE. 1995. Isolation and characterization of cDNA clones for Japanese Quail (*Coturnix japonica*) major histocompatibility complex (Mhc Coja) class I molecules. Immunogenetics 42:213–216.
- SHINE, R. 1991. Strangers in a strange land: ecology of Australian colubrid snakes. Copeia 1991:120–131.
- SHINE, R., AND R. A. SEIGEL. 1996. A neglected life-history trait: clutch-size variance in snakes. Journal of Zoology (London) 239:209–223.
- SHOEMAKER, D. D., AND K. G. ROSS. 1996. Effects of social organization on gene flow in the fire ant *Solenopsis invicta*. Nature 383:613–616.
- SHORT, L. L., JR. 1965. Hybridization in the flickers (*Colaptes*) of North America. Bulletin of the American Museum of Natural History 129:307–408.
- SIBLEY, C. G. 1997. The species problem. Birding 29: 215–219.
- SIBLEY, C. G., AND J. E. AHLQUIST. 1982. The relationships of the Hawaiian honeycreepers (Drepanidini) as indicated by DNA-DNA hybridization. Auk 99: 130–140.
- SIBLEY, C. G., AND B. L. MONROE, JR. 1990. Distribution and taxonomy of birds of the world. Yale University Press, New Haven, CT.
- SIBLEY, C. G., AND B. L. MONROE, JR. 1993. A supplement to distribution and taxonomy of birds of the world. Yale University Press, New Haven, CT.
- SIBLEY, C. G., AND L. L. SHORT, JR. 1964. Hybridization in the orioles of the Great Plains. Auk 76:443–463.
- SIBLEY, C. G., AND D. A. WEST. 1959. Hybridization in the Rufous-sided Towhees of the Great Plains. Auk 76:326–338.
- SIDLE, G. R., A. J. PEARCE, AND C. L. O'LOUGHIN. 1985. Hillslope stability and land use. American Geophysical Union, Washington, D.C.
- SIKES, P. J., AND K. A. ARNOLD. 1986. Red imported fire ant (*Solenopsis invicta*) predation on Cliff Swallow (*Hirundo pyrrhonota*) nestlings in east-central Texas. Southwestern Naturalist 31:105–106.
- SIMBERLOFF, D., AND W. BOECKLEN. 1991. Patterns of extinction in the introduced Hawaiian avifauna: a reexamination of the role of competition. American Naturalist 138:300–327.
- SIMON, C. 1987. Hawaiian evolutionary biology: an introduction. Trends in Ecology and Evolution 2: 175–178.
- SIMON, J. C., P. E. BAKER, AND H. BAKER. 1997. Maui Parrotbill (*Pseudonestor xanthophrys*). In A. Poole and F. Gill (editors). The Birds of North America, No. 311. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- SIMON, J. C., T. K. PRATT, K. E. BERLIN, AND J. R. KOWALSKY. 1998. Age and sex identification of Akohokohe. Journal of Field Ornithology 69:654–660.
- SIMONS, T. R. 1983. Biology and conservation of the endangered Hawaiian Dark-rumped Petrel (*Pterodroma phaeopygia sandwichensis*). CPSU/UW 83–2. National Park Service, Cooperative Parks Study Unit, College of Forest Resources, University of Washington, Seattle, WA.
- SIMONS, T. R. 1984. A population model of the endangered Hawaiian Dark-rumped Petrel. Journal of Wildlife Management 48:1065–1076.
- SIMONS, T. R. 1985. Biology and behavior of the endangered Hawaiian Dark-rumped Petrel. Condor 87: 229–245.
- SIMONS, T. R., AND C. N. HODGES. 1998. Dark-rumped Petrel (*Pterodroma phaeopygia*). In A. Poole and F. Gill (editors). The Birds of North America, No. 345. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- SINCOCK, J. L., R. E. DAehler, T. TELFER, AND D. H. WOODSIDE. 1984. Kauai forest bird recovery plan. U.S. Fish and Wildlife Service, Portland, OR.
- SINCOCK, J. L., AND J. M. SCOTT. 1980. Cavity nesting of the Akepa on the island of Hawaii. Wilson Bulletin 92:261–263.
- SINCOCK, J. L., AND G. E. SWEDBERG. 1969. Rediscovery of the nesting grounds of Newell's Manx Shearwater (*Puffinus puffinus newelli*), with initial observations. Condor 71:69–71.
- SKOLMAN, R. G. 1979. Plantings of the first reserves of Hawaii, 1910–1960. Institute of Pacific Islands Forestry, Pacific Southwest Forest and Range Experiment Station, U.S. Forest Service Honolulu, HI.
- SKUTCH, A. F. 1949. Do tropical birds rear as many young as they can nourish? Ibis 91:430–455.
- SKUTCH, A. F. 1950. The nesting season of Central American birds in relation to climate and food supply. Ibis 92:185–222.
- SKUTCH, A. F. 1985. Clutch size, nesting success, and predation on nests of Neotropical birds; reviewed. Ornithological Monographs 36:575–594.
- SMITH, C. W. 1985. Impacts of alien plants on Hawai'i's native biota. Pp. 180–250 in C. P. Stone and J. M. Scott (editors). Hawai'i's terrestrial ecosystems: preservation and management. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- SMITH, C. W. 1989. Nonnative plants. Pp. 60–68 in C. P. Stone and D. B. Stone (editors). Conservation bi-

- ology in Hawaii. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- SMITH, C. W., AND J. T. TUNISON. 1992. Fire and alien plants in Hawaii: research and management implications for native ecosystems. Pp. 394–408 in C. P. Stone, C. W. Smith, and J. T. Tunison (editors). Alien plant invasions in native ecosystems of Hawaii: management and research. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- SMITH, H. E., AND S. J. GUEST. 1974. A survey of internal parasites of birds on the western slopes of Diamond Head, Oahu Hawaii 1972–1973. US/IBP Island Ecosystems IRP Technical Report Number 37.
- SMITH, J. D. 1952. The Hawaiian Goose (Nene) restoration program. *Journal of Wildlife Management* 16:1–9.
- SMITH, J. N. M. 1988. Determinants of lifetime reproductive success in the song sparrow. Pp. 154–172 in T. H. Clutton-Brock (editor). *Reproductive success: studies of individual variation in contrasting breeding systems*. University of Chicago Press, Chicago, IL.
- SMITH, J. N. M., P. ARCESE, AND W. M. HOCHACHKA. 1991. Social behavior and population regulation in insular bird populations: implications for conservation. Pp. 148–167 in C. M. Perrins, J. D. Lebreton, and G. J. M. Hirons (editors). *Bird population studies*. Oxford University Press, Oxford, UK.
- SMITH, T. B., AND S. G. FANCY. 1998. Challenges and approaches for conserving Hawaii's endangered forest birds. Pp. 306–316 in P. L. Fiedler and P. M. Kareiva (editors). *Conservation biology: for the coming decade*. 2nd edition. Chapman and Hall, New York, NY.
- SNETSINGER, T. J., S. G. FANCY, J. C. SIMON, AND J. D. JACOBI. 1994. Diets of owls and feral cats in Hawaii. *'Elepaio* 54: 47–50.
- SNETSINGER, T. J., M. H. REYNOLDS, AND C. M. HERRMANN. 1998. 'ō'ū (*Psittirostra psittacea*) and Lāna'i Hookbill (*Dysmorphodrepanis munroi*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 335–336. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- SNETSINGER, T. J., K. M. WAKELEE, AND S. G. FANCY. 1999. Puaoihi (*Myadestes palmeri*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 461. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- SNOUNOU, G., S. VIRIYAKOSOL, X. P. ZHU, W. JARRA, L. PINHEIRO, V. E. DO ROSARIO, S. THAITHONG, AND K. N. BROWN. 1993. High sensitivity of detection of human malaria parasites by the use of nested polymerase chain reaction. *Molecular and Biochemical Parasitology* 61:315–320.
- SNOW, D. W. 1997. Should the biological be superseded by the phylogenetic species concept? *Bulletin of the British Ornithologists' Club* 117:110–121.
- SNYDER, N. F. R., S. R. DERRICKSON, S. R. BEISSINGER, J. W. WILEY, T. B. SMITH, W. D. TOONE, AND B. MILLER. 1996. Limitations of captive breeding in endangered species recovery. *Conservation Biology* 10:338–348.
- SOKAL, R. R., AND F. J. ROHLF. 1981. *Biometry*. 2nd edition. W. H. Freeman and Company, San Francisco, CA.
- SORENSEN, M. D., A. COOPER, E. E. PAXINOS, T. W. QUINN, H. F. JAMES, S. L. OLSON, AND R. C. FLEISCHER. 1999. Relationships of the extinct moa-nalos, flightless Hawaiian waterfowl, based on ancient DNA. *Proceedings of the Royal Society of London, Series B*, 266 (Nov.): 2187–2193.
- SORENSEN, M. D., AND R. C. FLEISCHER. 1996. Multiple independent transpositions of mitochondrial DNA control region sequences to the nucleus. *Proceedings of the National Academy of Sciences (USA)* 93: 15239–15243.
- SOULÉ, M. E. 1980. Thresholds for survival: maintaining fitness and evolutionary potential. Pp. 151–169 in M. E. Soulé and B. A. Wilcox (editors). *Conservation biology: an evolutionary-ecological perspective*. Sinauer Associates, Sunderland, MA.
- SOULÉ, M. E. (EDITOR). 1987. *Viable populations for conservation*. Cambridge University Press, London, UK.
- SOUTHERN, E. M. 1975. Detection of specific sequences among DNA fragments separated by gel electrophoresis. *Journal of Molecular Biology* 98:503–517.
- SPATZ, G., AND D. MUELLER-DOMBOIS. 1981. Age structure of *Acacia koa*. Pp. 268–275 in D. Mueller-Dombois, K. W. Bridges, and H. L. Carson (editors). *Island ecosystems: biological organization in selected Hawaiian communities*. Hutchinson Ross, Stroudsburg, PA.
- SPEAR, L. B., D. G. AINLEY, N. NUR, AND S. N. G. HOWELL. 1995. Population size and factors affecting at-sea distributions of four endangered Procellariids in the tropical Pacific. *Condor* 97:613–638.
- SPEAR, L. B., T. M. PENNIMAN, J. F. PENNIMAN, H. R. CARTER, AND D. G. AINLEY. 1987. Survivorship and mortality factors in a population of Western Gulls. *Studies in Avian Biology* 10:44–56.
- SPIETH, H. T. 1966. Hawaiian honeycreeper, *Vestiaria coccinea* (Forster), feeding on lobeliad flowers, *Clermontia arborescens* (Mann) Hillebrand American Naturalist 100:470–473.
- SPRIGGS, M. 1997. Landscape catastrophe and landscape enhancement: are either or both true in the Pacific? Pp. 80–104 in P. V. Kirch and T. L. Hunt (editors). *Historical ecology in the Pacific Islands*. Yale University Press, New Haven, CT.
- STAFFORD, P. J. 1986. Pythons and boas. T. F. H. Publishing Co., Neptune City, NJ.
- STANLEY, H. F., M. KADWELL, AND J. C. WHEELER. 1994. Molecular evolution of the family Camelidae: a mitochondrial DNA study. *Proceedings of the Royal Society of London, Series B* 256:1–6.
- STANNARD, D. 1989. Before the horror: the population of Hawaii on the eve of Western contact. University of Hawaii Press, Honolulu HI.
- STAPP, P., G. A. POLIS, AND F. SÁNCHEZ PIÑERO. 1999. Stable isotopes reveal strong marine and El Niño effects on island food webs. *Nature* 401:467–469.
- STATE OF HAWAII. 1987. The Newell's Shearwater light attraction problem: a guide for architects, planners, and resort managers. Department of Land and Nat-

- ural Resources, Division of Forestry and Wildlife, Lihue, HI.
- STATTERSFIELD, A. J., M. J. CROSBY, A. J. LONG, AND D. C. WEGE. 1998. Endemic bird areas of the world: priorities for biodiversity conservation. BirdLife International. BirdLife Conservation Series No. 7. Cambridge, UK.
- STEADMAN, D. W. 1991. Extinct and extirpated birds from Aitutaki and Atiu, Southern Cook Islands. *Pacific Science* 45:325–347.
- STEADMAN, D. W. 1992. Extinct and extirpated birds from Rota, Mariana Islands. *Micronesica* 25:71–84.
- STEADMAN, D. W. 1993. A chronstratigraphic analysis of landbird extinction on Tahuata, Marquesas Islands. *Journal of Archeological Society* 23:81–94.
- STEADMAN, D. W. 1995. Prehistoric extinctions of Pacific island birds: biodiversity meets zooarchaeology. *Science* 267:1123–1131.
- STEADMAN, D. W. 1997a. Human-caused extinction of birds. Pp. 139–161 in M. L. Reaka-Kudla, D. E. Wilson, and E. O. Wilson (editors). *Biodiversity II*. Joseph Henry Press, Washington, D.C.
- STEADMAN, D. W. 1997b. Extinctions of Polynesian birds: reciprocal impacts of birds and people. Pp. 51–79 in P. V. Kirch and T. L. Hunt (editors). *Historical ecology of the Pacific islands*. Yale University Press, New Haven, CT.
- STEADMAN, D. W., E. C. GREINER, AND C. S. WOOD. 1990. Absence of blood parasites in indigenous and introduced birds from the Cook Islands, South Pacific. *Conservation Biology* 4:398–404.
- STEARNS, H. T. 1966. *Geology of the state of Hawaii*. Pacific Books, Palo Alto, CA.
- STEINITZ, C. (EDITOR). 1996. *Biodiversity and landscape planning: alternative futures for the region of Camp Pendleton, California*. Prepared by Harvard University, USDA Forest Service, U.S. Environmental Protection Agency, and The Nature Conservancy, Cambridge, MA, Logan, UT, Corvallis, OR, and Temecula, CA.
- STEJNEGER, L. 1887. Birds of Kauai Island, Hawaiian Archipelago, collected by Mr. Valdemar Knudsen, with descriptions of new species. *Proceedings of the United States National Museum* 10:75–102.
- STEJNEGER, L. 1889. Notes on a third collection of birds made in Kauai, Hawaiian Islands, by Valdemar Knudsen. *Proceedings of the United States National Museum* 12:377–386.
- STEVENS, L. 1996. *Avian biochemistry and molecular biology*. Cambridge University Press, New York, NY.
- STILES, F. G. 1975. Ecology, flowering phenology, and hummingbird pollination of some Costa Rican *Heliconia* species. *Ecology* 56:285–301.
- STILES, F. G. 1978. Temporal organization of flowering among the hummingbird foodplants of a tropical wet forest. *Biotropica* 10:194–210.
- STILES, F. G. 1980. The annual cycle in a tropical wet forest hummingbird community. *Ibis* 122:322–343.
- STILES, F. G. 1985. Seasonal patterns and coevolution in the hummingbird-flower community of a Costa Rican subtropical forest. *Ornithological Monographs* 36:757–787.
- STILES, F. G. 1988. Altitudinal movements of birds on the Caribbean slope of Costa Rica: implications for conservation. Pp. 243–258 in F. Almeda and C. M. Pringle (editors). *Tropical rainforests: diversity and conservation*. California Academy of Sciences, San Francisco, CA.
- STILES, F. G. 1995. Behavioral, ecological and morphological correlates of foraging for arthropods by the hummingbirds of a tropical wet forest. *Condor* 97:853–878.
- STINSON, D. W., G. J. WILES, AND J. D. REICHEL. 1997. Migrant land birds and water birds in the Mariana Islands. *Pacific Science* 51:314–327.
- STODDARD, D. R., AND R. P. D. WALSH. 1992. Environmental variability and environmental extremes as factors in the island ecosystem. *Atoll Research Bulletin* 356:1–71.
- STODDARD, H. L. 1931. *The Bobwhite Quail, its habits, preservation and increase*. Charles Scribner's Sons, New York, NY.
- STONE, C. P. 1985. Alien animals in Hawai'i's native ecosystems: towards controlling the adverse effects of introduced vertebrates. Pp. 251–297 in C. P. Stone and J. M. Scott (editors). *Hawai'i's terrestrial ecosystems: preservation and management*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- STONE, C. P. 1989. Non-native land vertebrates. Pp. 88–95 in C. P. Stone and D. B. Stone (editors). *Conservation biology in Hawaii*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- STONE, C. P., M. DUSEK, AND M. AEDER. 1995. Use of an anticoagulant to control mongooses in Nene breeding habitat. *'Elepaio* 54:73–78.
- STONE, C. P., AND L. L. LOOPE. 1987. Reducing negative effects of introduced animals on native biotas in Hawaii: what is being done, what needs doing, and the role of national parks. *Environmental Conservation* 14:245–258.
- STONE, C. P., AND J. M. SCOTT (EDITORS). 1985a. *Hawai'i's terrestrial ecosystems: preservation and management*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- STONE, C. P., AND J. M. SCOTT. 1985b. *Hawai'i's native ecosystems: importance, conflicts, and suggestions for the future*. Pp. 495–534 in C. P. Stone and J. M. Scott (editors). *Hawai'i's terrestrial ecosystems: preservation and management*. Cooperative National Park Resources Studies Unit, University of Hawaii Press, Honolulu, HI.
- STONE, C. P., C. W. SMITH, AND J. T. TUNISON (EDITORS). 1992. *Alien plant invasions in native ecosystems of Hawaii: management and research*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- STONE, C. P., AND D. B. STONE (EDITORS). 1989. *Conservation biology in Hawaii*. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- STONE, C. P., R. L. WALKER, J. M. SCOTT, AND P. C. BANKO. 1983. Hawaiian goose research and management—where do we go from here? *'Elepaio* 44: 11–15.
- STRAHMS, W. 1996. Invasive species in Mauritius: examining the past and charting the future. Pp. 167–175 in O. T. Sandlund, P. J. Schei, and A. Viken

- (editors). 1996. Proceedings of the Norway/UN Conference on Alien Species. Directorate for Nature Management and Norwegian Institute for Nature Research, Trondheim, Norway.
- STURMAN, W. A. 1968. Description and analysis of breeding habits of the chickadees, *Parus atricapillus* and *P. rufescens*. *Ecology* 49:418–431.
- SUH, W.-K., M. F. COHEN-DOYLE, K. FRUH, K. WANG, P. A. PETERSON, AND D. B. WILLIAMS. 1994. Interaction of MHC class I molecules with the transporter associated with antigen processing. *Science* 264: 1322–1326.
- SULLIVAN, K. A., AND J. J. ROPER. 1996. Impacts of predation on passerine post-fledging success. *Transactions of the North American Wildlife and Natural Resource Conference* 61:77–85.
- SUMMERS, R. W., AND J. STANSFIELD. 1991. Changes in the quantity and quality of grassland due to winter grazing by Brent Geese (*Branta bernicla*). *Agriculture, Ecosystems and Environment* 36:51–57.
- SUSHKIN, P. P. 1929. On the systematic position of the Drepanidae. *Verhandl. VI InterNational Ornith. Kongr. Kopenhagen*, pp. 379–381.
- SWEDBERG, G. E. 1967. The Koloa. Division of Fish and Game, Department of Land and Natural Resources, Honolulu, HI.
- SWOFFORD, D. L. 1993. PAUP: Phylogenetic analysis using parsimony. Version 3.1.1. Illinois Natural History Survey, Champaign, IL.
- SWOFFORD, D. L. 1996. PAUP*: Phylogenetic analysis using parsimony*, Versions 4.0d52–60. Illinois Natural History Survey, Champaign IL.
- SYKES, P. W., A. K. KEPLER, C. B. KEPLER, AND J. M. SCOTT. 2000. Kaua'i 'ō'ō, O'ahu 'ō'ō, Bishop 'ō'ō, Hawai'i 'ō'ō, and Kioea. In A. Poole and F. Gill (editors). *The Birds of North America*, No. 535. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- TARR, C. L. 1995. Primers for amplification and determination of mitochondrial control-region sequences in oscine passerines. *Molecular Ecology* 4: 527–529.
- TARR, C. L., S. CONANT, AND R. C. FLEISCHER. 1998. Founder events and variation at microsatellite loci in an insular passerine bird, the Laysan Finch (*Telespiza cantans*). *Molecular Ecology* 7:719–731.
- TARR, C. L., AND R. C. FLEISCHER. 1993. Mitochondrial-DNA variation and evolutionary relationships in the amakihi complex. *Auk* 110:825–831.
- TARR, C. L., AND R. C. FLEISCHER. 1995. Evolutionary relationships of the Hawaiian honeycreepers (Aves, Drepanidae). Pp. 147–159 in W. L. Wagner and V. A. Funk (editors). *Hawaiian biogeography: evolution on a hotspot archipelago*. Smithsonian Institution Press, Washington, D.C.
- TAYLOR, D., AND L. KATAHIRA. 1988. Radio telemetry as an aid in eradicating remnant feral goats. *Wildlife Society Bulletin* 16:297–299.
- TAYLOR, R. H. 1985. Status, habits and conservation of *Cyanoramphus* parakeets in the New Zealand region. Pp. 195–211 in P. J. Moors (editor). *Conservation of island birds*. International Council for Bird Preservation Technical Publication, No. 3. Cambridge, UK.
- TEAR, T. H., J. M. SCOTT, P. H. HAYWARD, AND B. GRIFFITH. 1993. Status and prospects for success of the Endangered Species Act: a look at recovery plans. *Science* 262:976–977.
- TELEWSKI, F. W. 1995. Wind-induced physiological and developmental responses in trees. Pp. 237–263 in M. P. Coutts and J. Grace (editors). *Wind and trees*. Cambridge University Press, Cambridge, UK.
- TELFER, T. C. 1986. Newell's Shearwater nesting colony establishment study on the island of Kauai. Final report. Statewide Pittman-Robertson Program, Department of Lands and Natural Resources, State of Hawaii, Honolulu, HI.
- TELFER, T. C. 1995. Survey of the Nene population on Kauai. Pittman-Robertson Report W-18-R-20, Job R-I-G. Hawaii Department of Land and Natural Resources, Division of Forestry and Wildlife, Honolulu, HI.
- TELFER, T. C. 1996. Nene surveys, Kauai County. Pittman-Robertson Report W-35-NGS, Project 1, Job 3. Hawaii Department of Land and Natural Resources, Division of Forestry and Wildlife, Honolulu, HI.
- TELFER, T. C., J. L. SINCOCK, G. V. BYRD, AND J. R. REED. 1987. Attraction of Hawaiian seabirds to lights: conservation efforts and effects of moon phase. *Wildlife Society Bulletin* 15:406–413.
- TEMPLE, S. A. 1985. Why endemic island birds are so vulnerable to extinction. *Bird Conservation* 2:3–6. University of Wisconsin Press, Madison, WI.
- TEMPLE, S. A. 1986. The problem of avian extinctions. *Current Ornithology* 3:453–485.
- TEMPLE, S. A., AND J. R. CARY. 1988. Modeling dynamics of habitat-interior bird populations in fragmented landscapes. *Conservation Biology* 2:340–347.
- TEMPLETON, T. J., AND D. C. KASLOW. 1997. Cloning and cross-species comparison of the thrombospondin-related anonymous protein (TRAP) gene from *Plasmodium knowlesi*, *Plasmodium vivax* and *Plasmodium gallinaceum*. *Molecular and Biochemical Parasitology* 84:13–24.
- TERBORGH, J. 1995. Wildlife in managed tropical forests: a Neotropical perspective. Pp. 331–342 in A. E. Lugo and C. Lowe (editors). *Tropical forests: management and ecology*. Springer-Verlag, New York, NY.
- TERBORGH, J., AND B. WINTER. 1980. Some causes of extinction. Pp. 119–133 in M. E. Soulé and B. A. Wilcox (editors). *Conservation biology: an evolutionary-ecological perspective*. Sinauer Associates, Sunderland, MA.
- THOMAS, D. G. 1980. Foraging of honeyeaters in an area of Tasmanian sclerophyll forest. *Emu* 80:55–58.
- THOMAS, R. H., AND J. A. HUNT. 1991. The molecular evolution of the alcohol dehydrogenase locus and the phylogeny of the Hawaiian *Drosophila*. *Molecular Biology and Evolution* 8:687–702.
- THOMPSON, J. N. 1996. Evolutionary ecology and the conservation of biodiversity. *Trends in Ecology and Evolution* 11:300–303.
- THOMPSON, K. R. 1987. The ecology of the Manx Shearwater *Puffinus puffinus* on Rhum, West Scotland. Ph.D. dissertation. University of Scotland, Aberdeen, Scotland.
- THROP, J. L. 1970. The Laysan Finch bill in the Ho-

- nolulu Zoo: *Psittirostra cantans cantans*. Elepaio 31:31–34.
- THURSTON, H. 1998. When it became a new species, a tiny songbird was thrust into the limelight. National Wildlife 36:18–19.
- THURSZ, M. R., D. KWIATKOWSKI, C. E. ALLSOPP, B. M. GREENWOOD, H. C. THOMAS, AND A. V. HILL. 1995. Association between an MHC class II allele and clearance of hepatitis B virus in the Gambia. New England Journal of Medicine 332:1065.
- THURSZ, M. R., H. C. THOMAS, B. M. GREENWOOD, AND A. V. S. HILL. 1997. Heterozygote advantage for HLA class II type in Hepatitis B virus infection. Nature Genetics 17:11–12.
- THYAGARAJU, A. S. 1934. The King Crow (*Dicrurus macrocercus* P.). Journal of the Bombay Natural History Society 37:727–728.
- TODD, I. A. 1992. WILDTRAK. Non-parametric home range analysis for Macintosh computers. Department of Zoology, Oxford University, Oxford, UK.
- TOMICH, P. Q. 1969. Mammals in Hawaii. Bishop Museum Press, Honolulu, HI.
- TOMICH, P. Q. 1971. Notes on foods and feeding behavior of raptorial birds in Hawaii. Elepaio 31:111–114.
- TOMICH, P. Q. 1981a. Rodents. Pp. 105–110 in D. Mueller-Dombois, K. Bridges, and H. L. Carson (editors). Island ecosystems. U.S. International Biological Program Synthesis Series 15. Hutchinson Ross, Stroudsburg, PA.
- TOMICH, P. Q. 1981b. Community structure of introduced rodents and carnivores. Pp. 301–309 in D. Mueller-Dombois, K. Bridges, and H. L. Carson (editors). Island ecosystems: biological organization in selected Hawaiian communities. U.S. International Biological Program Synthesis Series 15. Hutchinson Ross, Stroudsburg, PA.
- TOMICH, P. Q. 1986. Mammals in Hawaii. 2nd edition. B. P. Bishop Museum Special Publication 76. Bishop Museum Press, Honolulu, HI.
- TOMKINS, R. J. 1985. Breeding success and mortality of Dark-rumped Petrels in the Galapagos, and control of their predators. Pp. 159–175 in P. J. Moors (editor). Conservation of island birds. International Council for Bird Preservation Technical Publication No. 3. Cambridge, UK.
- TOMKINS, R. J., AND B. J. MILNE. 1991. Differences among Dark-rumped Petrel (*Pterodroma phaeopygia*) populations within the Galapagos Archipelago. Notornis 38:1–35.
- TOMONARI-TUGGLE, M. J. 1996. Bird catchers and bullock hunters in the upland Mauna Kea forest: a cultural resource overview of Hakalau Forest National Wildlife Refuge, Island of Hawaii. International Archaeological Research Institute, Inc., Honolulu, HI.
- TOWNS, D. R., D. SIMBERLOFF, AND I. A. E. ATKINSON. 1997. Restoration of New Zealand islands: redressing the effects of introduced species. Pacific Conservation Biology 3:99–124.
- TREWICK, S. A. 1997. Flightlessness and phylogeny amongst endemic rails (Aves: Rallidae) of the New Zealand region. Philosophical Transactions of the Royal Society of London B Biological Sciences 352: 429–446.
- TRIPATHY, D. N. 1993. Avipox viruses. Pp. 5–15 in J. B. McFerran and M. S. McNulty (editors). Virus infections of birds. Elsevier, New York, NY.
- TROWSDALE, J., J. RAGOUESSIS, AND R. D. CAMPELL. 1991. Map of the human major histocompatibility complex. Immunology Today, December 1991, centerfold.
- TRYON, B. W. 1984. Additional instances of multiple egg-clutch production in snakes. Transactions of the Kansas Academy of Sciences 87:98–104.
- TRYON, B. W., AND J. B. MURPHY. 1982. Miscellaneous notes on the reproductive biology of reptiles. 5. Thirteen varieties of the genus *Lampropeltis*, species *mexicana*, *triangulum* and *zonata*. Transactions of the Kansas Academy of Sciences 85:96–119.
- TULLY, J. 1997. Pesky mangroves closing in on the bay. Kailua Sun Press, August 1–7:23.
- TURNER, I. M., AND R. T. CORLETT. 1996. The conservation value of small, isolated fragments of lowland tropical rain forest. Trends in Ecology and Evolution 11:330–333.
- UDVARDY, M. D. F. 1969. Dynamic zoogeography. Van Nostrand-Reinhold, New York, NY.
- U.S. CONGRESS, OFFICE OF TECHNOLOGY ASSESSMENT. 1993. Harmful non-indigenous species in the United States. OTA-F-565. U.S. Government Printing Office, Washington, D.C.
- U.S. DEPARTMENT OF AGRICULTURE. 1989. Results of Rota, CNMI pilot test to eradicate the melon fly by the male annihilation technique. U.S. Department of Agriculture, Agricultural Research Service, Tropical Fruit and Vegetable Research Lab, Honolulu, HI.
- U.S. DEPARTMENT OF COMMERCE. 1993. Climatological data-Hawaii and Pacific. Vol. 89. NOAA. Asheville, NC.
- U.S. FISH AND WILDLIFE SERVICE. 1982a. Recovery plan: Newell's Shearwater and Dark-rumped Petrel. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1982b. Hawaii forest bird recovery plan. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1982c. Alala recovery plan. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1982d. Recovery plan for the Laysan Duck. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1983a. Kauai forest birds recovery plan. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1983b. Hawaiian Dark-rumped Petrel and Newell's Manx Shearwater Recovery Plan. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1983c. Recovery plan for the Nene. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1984a. Northwestern Hawaiian Islands passerine recovery plan. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1984b. Hawaii Hawk recovery plan. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1984c. Maui-Molokai forest birds recovery plan. U.S. Fish and Wildlife Service, Portland, OR.

- U.S. FISH AND WILDLIFE SERVICE. 1985. Hawaiian waterbirds recovery plan. U.S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1986. Recovery plan for the Palila. U. S. Fish and Wildlife Service, Portland, OR.
- U.S. FISH AND WILDLIFE SERVICE. 1987. Field guide to wildlife diseases. Vol. 1. General field procedures and diseases of migratory birds (M. Friend, editor). Resource Publication 167. U. S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
- U.S. FISH AND WILDLIFE SERVICE. 1989. Endangered species in the wake of Hurricane Hugo. Endangered Species Technical Bulletin Nos. 9–10:3, 6–7.
- U.S. FISH AND WILDLIFE SERVICE. 1996a. Endangered and threatened wildlife and plants. Tech. Rep. 50 CFR 17.11–17.12. U.S. Fish and Wildlife Service, Washington, D.C.
- U.S. FISH AND WILDLIFE SERVICE. 1996b. Trends in duck breeding populations, 1955–1996. Migratory Bird Management. Office Administrative Report. Laurel, MD.
- U.S. FISH AND WILDLIFE SERVICE. 1996c. Report to Congress on the recovery program for threatened and endangered species: 1996. U.S. Department of Interior, U.S. Fish and Wildlife Service, Washington, D.C.
- U.S. FISH AND WILDLIFE SERVICE. 1998. Endangered and threatened wildlife and plants. Technical Report 63 FR 13150. Washington, D.C.
- VAIMAN, D., L. SCHIBLER, F. BOURGEOIS, A. OUSTRY, Y. AMIGUES, AND E. P. CRIBIU. 1996. A genetic linkage map of the male goat genome. Genetics 144: 279–305.
- VALLE, C. A., AND M. C. COULTER. 1987. Present status of the flightless cormorant, Galapagos Penguin and Greater Flamingo populations in the Galapagos Islands, Ecuador, after the 1982–83 El Niño. Condor 89:276–281.
- VAN AARDE, R. J. 1978. Reproduction and density of the feral house cats (*Felis catus*) at Marion Island. Carnivore Genetics Newsletter 3:288–316.
- VAN BALEN, J. H. 1980. Population fluctuations of the Great Tit and feeding conditions in winter. Ardea 68: 143–164.
- VAN BALEN, J. H., C. J. H. BOOY, J. A. VAN FRANEKER, AND E. R. OSIECK. 1982. Studies on hole-nesting birds in natural nest sites. 1. Availability and occupation of natural nest sites. Ardea 70:1–24.
- VAN REUSENBURG, P. J. J., AND M. N. BESTER. 1988. The effects of cats *Felis catus* predation on three breeding Procellariidae species on Marion Island. South African Journal of Zoology 23:301–305.
- VAN RIPER, C., III. 1978. The breeding ecology of the Amakihi (*Loxops virens*) and Palila (*Psittirostra bailleui*) on Mauna Kea, Hawaii. Ph.D. dissertation. University of Hawaii, Honolulu, HI.
- VAN RIPER, C., III. 1980a. Observations on the breeding of the Palila (*Psittirostra bailleui*) of Hawaii. Ibis 122:462–475.
- VAN RIPER, C., III. 1980b. The phenology of the dryland forest of Mauna Kea, Hawaii, and the impact of recent environmental perturbations. Biotropica 12:282–291.
- VAN RIPER, C., III. 1982. Censuses and breeding observations of the birds on Kohala Mountain, Hawaii. Wilson Bulletin 94:463–476.
- VAN RIPER, C., III. 1984. The influence of nectar resources on nesting success and movement patterns of the common Amakihi (*Hemignathus virens*). Auk 101:38–46.
- VAN RIPER, C., III. 1987. Breeding ecology of the Hawaii Common Amakihi. Condor 89:85–102.
- VAN RIPER, C., III. 1991. The impact of introduced vectors and avian malaria on insular passeriform bird populations in Hawaii. Bulletin of the Society for Vector Ecology 16:59–83.
- VAN RIPER, C., III. 1995. Ecology and breeding biology of the Hawaii Elepaio (*Chasiempis sandwichensis bryani*). Condor 97:512–527.
- VAN RIPER, C., III, AND L. T. HIRAI. 1994. Coloration frequencies of male House Finches in Hawaii. Western Birds 25:163–165.
- VAN RIPER, C., III, M. D. KERN, AND M. K. SOGGE. 1993. Changing nest placement of Hawaiian Common Amakihi during the breeding cycle. Wilson Bulletin 105:436–447.
- VAN RIPER, C., III, AND J. M. SCOTT. 1979. Observations on distribution, diet, and breeding of the Hawaiian thrush. Condor 81:65–71.
- VAN RIPER, C., III, J. M. SCOTT, AND D. M. WOODSIDE. 1978. Distribution and abundance patterns of the Palila on Mauna Kea, Hawaii. Auk 95:518–527.
- VAN RIPER, C., III, S. G. VAN RIPER, M. L. GOFF, AND M. LAIRD. 1982. The impact of malaria on birds in Hawaii Volcanoes National Park. Technical Report 47. Cooperative National Park Studies Unit, University of Hawaii, Honolulu, HI.
- VAN RIPER, C., III, S. G. VAN RIPER, M. L. GOFF, AND M. LAIRD. 1986. The epizootiology and ecological significance of malaria in Hawaiian land birds. Ecological Monographs 56:327–344.
- VAN RIPER, C., III, S. G. VAN RIPER, AND W. R. HANSEN. In press. The epizootiology and ecological significance of avian pox in Hawaii. Auk.
- VAN RIPER, S. G. 2000. Japanese White-eye (*Zosterops japonicus*). In A. Poole and F. Gill (editors). The Birds of North America, No. 487. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- VAN RIPER, S. G., AND C. VAN RIPER, III. 1982. A field guide to the mammals in Hawaii. The Oriental Publishing Company, Honolulu, HI.
- VAN RIPER, S. G., AND C. VAN RIPER, III. 1985. A summary of known parasites and diseases recorded from the avifauna of the Hawaiian Islands. Pp. 298–371 in C. P. Stone and J. M. Scott (editors). Hawaii's terrestrial ecosystems: preservation and management. Cooperative National Park Studies Unit, University of Hawaii, Honolulu, HI.
- VANCOUVER, G. 1798. A voyage of discovery to the North Pacific, and round the world. Vols. I–III. Robinson, London, UK.
- VANDERWERF, E. A. 1993. Scales of habitat selection by foraging 'Elepaio in undisturbed and human-altered forests in Hawaii. Condor 95:980–989.
- VANDERWERF, E. A. 1994. Intraspecific variation in Elepaio foraging behavior in Hawaiian forests of different structure. Auk 111:917–932.

- VANDERWERF, E. A. 1997. O'ahu 'Amakihi nest in Manoa Valley. *'Elepaio* 57:125–126.
- VANDERWERF, E. A. 1998a. 'Elepaio (*Chasiempis sandwichensis*). In A. Poole and F. Gill (editors). *The Birds of North America*, No. 344. The Academy of Natural Sciences, Philadelphia, PA, and American Ornithologists' Union, Washington, D.C.
- VANDERWERF, E. A. 1998b. Breeding biology and territoriality of the Hawaii Creeper. *Condor* 100:541–545.
- VANDERWERF, E. A., A. COWELL, AND J. L. ROHRER. 1997. Distribution, abundance, and conservation of O'ahu 'Elepaio in the southern leeward Ko'olau Range. *'Elepaio* 57:99–105.
- VANDERWERF, E. A., AND J. L. ROHRER. 1996. Discovery of an 'I'iwi population in the Ko'olau Mountains of O'ahu. *'Elepaio* 56:25–28.
- VANGELDER, E. M. 1996. The breeding biology of the Akohekohe (*Palmeria dolei*), an endangered Hawaiian honeycreeper. M.S. thesis. San Francisco State University, San Francisco, CA.
- VEITCH, C. R. 1985. Methods of eradicating feral cats from offshore islands in New Zealand. Pp. 125–141 in P. J. Moors (editor). International Council for Bird Preservation Technical Publication No. 3. Cambridge, UK.
- VELTMAN, C. J., S. NEE, AND M. J. CRAWLEY. 1996. Correlates of introduction success in exotic New Zealand birds. *American Naturalist* 147:542–557.
- VENABLES, W. N., AND B. D. RIPLEY. 1994. Modern applied statistics with S-Plus. Springer-Verlag, New York, NY.
- VERMEER, K., AND L. RANKIN. 1984. Influence of habitat destruction and disturbance on nesting seabirds. Pp. 723–736 in J. P. Croxall, P. G. H. Evans, and R. W. Schreiber (editors). Status and conservation of the world's seabirds. International Council for Bird Preservation Technical Publication No. 2. Cambridge, UK.
- VERNON, C. J. 1959. *Dicrurus adsimilis* killing and eating *Serinus mozambicus*. *Bokmarkerie* 11:3.
- VINCEK, V., D. KLEIN, R. T. GRASER, F. FIGUEROA, C. O'HUIGIN, AND J. KLEIN. 1995. Molecular cloning of major histocompatibility complex class II B gene cDNA from the Bengalese Finch *Lonchura striata*. *Immunogenetics* 42:262–267.
- VITOUSEK, P. M. 1992. Effects of alien plants on native ecosystems. Pp. 29–41 in C. P. Stone, C. W. Smith, and J. T. Tunison (editors). Alien plant invasions in native ecosystems of Hawai'i: management and research. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- VITOUSEK, P. M., C. M. D'ANTONIO, L. L. LOOPE, M. REJMANEK, AND R. WESTBROOKS. 1997. Introduced species: a significant component of human-caused global change. *New Zealand Journal of Ecology* 21: 1–16.
- VITOUSEK, P. M., L. L. LOOPE, AND C. P. STONE. 1987. Introduced species in Hawaii: biological effects and opportunities for ecological research. *Trends in Ecology and Evolution* 2:224–227.
- VITOUSEK, P. M., D. R. TURNER, AND K. KITAYAMA. 1995. Foliar nutrients during long-term soil development in Hawaiian montane rain forest. *Ecology* 76:712–720.
- VITOUSEK, P. M., AND L. R. WALKER. 1989. Biological invasion by *Myrica faya* in Hawai'i: plant demography, nitrogen fixation, ecosystem effects. *Ecological Monographs* 59:247–265.
- VON HAARTMAN, L. 1956. Territory in the Pied Flycatcher, *Muscicapa hypoleuca*. *Ibis* 98:460–475.
- VON HAARTMAN, L. 1971. Population dynamics. Pp. 391–459 in D. S. Farner and J. R. King (editors). *Avian biology*. Vol. 1. Academic Press, New York, NY.
- VOS, P., R. HOGERS, M. BLEEKER, M. REIJANS, T. VAN DE LEE, M. HORNES, A. FRUITERS, J. POT, J. PELEMAN, M. KUIPER, AND M. ZABEAU. 1995. AFLP: a new technique for DNA fingerprinting. *Nucleic Acid Research* 23:4407–4414.
- WAGNER, H. O. 1946. Food and feeding habits of Mexican hummingbirds. *Wilson Bulletin* 58:69–93.
- WAGNER, R. 1970. Neue Aspekte zur Stickstoffanalytik in der Wasserchemie. *Vom Wasser* 37:263–318.
- WAGNER, W. L., AND V. A. FUNK (EDITORS). 1995. *Hawaiian biogeography: evolution on a hot spot archipelago*. Smithsonian Institution Press, Washington, D.C.
- WAGNER, W. L., D. R. HERBST, AND S. H. SOHMER. 1990a. Manual of the flowering plants of Hawai'i. Vol. 1. University of Hawaii Press and Bishop Museum Press, Honolulu, HI.
- WAGNER, W. L., D. R. HERBST, AND S. H. SOHMER. 1990b. Manual of the flowering plants of Hawai'i. Vol. 2. University of Hawaii Press and Bishop Museum Press, Honolulu, HI.
- WAKELEE, K. M. 1996. Life history of the Omao (*Myadestes obscurus*). M.S. thesis. University Hawaii, Honolulu, HI.
- WAKELIN, D. 1996. Immunity to parasites. 2nd edition. Cambridge University Press, Cambridge, UK.
- WALKER, G. P. L. 1990. Geology and volcanology of the Hawaiian Islands. *Pacific Science* 44:315–347.
- WALKER, R. L. 1966. Hawaii exotic game bird report. Vol. 13. Annual Report of the Western States Exotic Game Bird Committee, Honolulu, HI.
- WALKER, R. L. 1967. A brief history of exotic game bird and mammal introductions into Hawaii with a look to the future. State of Hawaii, Department of Land and Natural Resources, Honolulu, HI.
- WALLACE, G. D. 1973. The role of the cat in the natural history of *Toxoplasma gondii*. *American Journal of Tropical Medicine and Hygiene* 22:313–322.
- WALLACE, G. D., D. AUAI, A. ODA, R. E. KISSLING, AND W. B. QUISENBERRY. 1964. Arthropod-borne virus survey on the island of Hawaii. *Hawaii Medical Journal* 23:364–386.
- WALSBERG, G. E. 1983. Avian ecological energetics. Pp. 161–220 in D. Farner, J. King, and K. Parkes (editors). *Avian biology*. Vol. 7. Academic Press, New York, NY.
- WARHAM, J. 1990. The petrels: their ecology and breeding systems. Academic Press, London, UK.
- WARING, G. H., L. L. LOOPE, AND A. C. MEDEIROS. 1993. Study on use of alien versus native plants by nectarivorous forest birds on Maui, Hawaii. *Auk* 110:917–920.
- WARNER, R. E. 1960. A forest dies on Mauna Kea. *Pacific Discovery* 13:6–14.

- WARNER, R. E. 1963. Recent history and ecology of the Laysan Duck. *Condor* 65:3–23.
- WARNER, R. E. 1967. Scientific report of the Kipahulu valley expedition. The Nature Conservancy, Honolulu, HI.
- WARNER, R. E. 1968. The role of introduced diseases in the extinction of the endemic Hawaiian avifauna. *Condor* 70:101–120.
- WARSHAUER, F. R., J. D. JACOBI, A. M. LAROSA, J. M. SCOTT, AND C. W. SMITH. 1983. The distribution, impact and potential management of the introduced vine *Passiflora mollissima* (Passifloraceae) in Hawaii. Technical Report 48. Cooperative National Park Research Studies Unit, University of Hawaii, Honolulu, HI.
- WATERS, A. P., AND T. F. MCCUTCCHAN. 1989. Rapid, sensitive diagnosis of malaria based on ribosomal RNA. *The Lancet* 8651:1343–1346.
- WAUER, R. N. 1990a. Lure of the Caribbean: Part 1. The Greater and Lesser Antilles. *Birding* 22:42–45.
- WAUER, R. N. 1990b. Lure of the Caribbean: Part 2. West Indies endemics. *Birding* 22:186–189.
- WAUER, R. H., AND J. M. WUNDERLE JR. 1992. The effect of hurricane Hugo on bird populations of St. Croix, U.S. Virgin Islands. *Wilson Bulletin* 104: 656–673.
- WAY, M. J., AND K. C. KHOO. 1992. Role of ants in pest management. *Annual Review of Entomology* 37:479–503.
- WEATHERALL, D. J. 1996. Host genetics and infectious disease. *Symposia of the British Society of Parasitology* 33:S23–S29.
- WEATHERHEAD, P. J., AND M. R. L. FORBES. 1994. Natal philopatry in passerine birds: genetic or ecological influences? *Behavioral Ecology* 5:426–433.
- WEISS, J. B. 1995. DNA probes and PCR for diagnosis of parasitic infections. *Clinical Microbiology Reviews* 8:113–130.
- WEISS, K. M. 1993. Genetic variation and human disease. Cambridge University Press, New York, NY.
- WELLER, M. W. 1980. The island waterfowl. Iowa State University Press, Ames, IA.
- WESOŁOWSKI, T. 1983. The breeding ecology and behaviour of wrens *Troglodytes troglodytes* under primaeva and secondary conditions. *Ibis* 125:499–515.
- WESOŁOWSKI, T. 1989. Nest-sites of hole-nesters in a primeval temperate forest (Bialowieza National Park, Poland). *Acta Ornithologica* 25:321–351.
- WEST, D. A. 1962. Hybridization in grosbeaks (*Pheucticus*) of the Great Plains. *Auk* 79:399–424.
- WESTBROOKS, R., AND R. E. EPLEE. 1996. Strategies for preventing the world movement of invasive plants. Pp. 148–154 in O. T. Sandlund, P. J. Schei, and A. Viken (editors). 1996. Proceedings of the Norway/UN Conference on Alien Species. Directorate for Nature Management and Norwegian Institute for Nature Research, Trondheim, Norway.
- WESTER, L. 1981. Introduction and spread of mangroves in the Hawaiian Islands. *Association of Pacific Coast Geographers Yearbook* 43:125–137.
- WETMORE, A. 1924. A warbler from Nihoa. *Condor* 26: 177–178.
- WETMORE, A. 1925. Bird life among lava rock and coral sand. *National Geographic Magazine* 48:76–108.
- WETMORE, A. 1943. An extinct goose from the island of Hawaii. *Condor* 45:146–148.
- WHITE, G. C., AND R. A. GARROTT. 1990. Analysis of wildlife radio-tracking data. Academic Press, New York, NY.
- WHITEAKER, L. D. AND D. E. GARDNER. 1985. The distribution of *Myrica faya* in the state of Hawaii. University Hawaii Cooperative National Park Resources Study Unit. Technical Report 55. Botany Department, University of Hawaii, Honolulu, HI.
- WHITEAKER, L. D., AND D. GARDNER. 1992. Firetree (*Myrica faya*) distribution in Hawaii. Pp. 225–240 in C. P. Stone, C. W. Smith and J. T. Tunison (editors). Alien plant invasions in native ecosystems of Hawaii: management and research. Cooperative National Park Resources Studies Unit, University of Hawaii, Honolulu, HI.
- WICHMAN, F. B. 1985. *Lau-Haka*. Pp. 190–124 in F. F. Winchman (editor). *Kauai Tales*. Bamboo Ridge Press, Honolulu, HI.
- WICK, H. L. 1970. Lignin staining: a limited success in identifying koa growth rings. USDA Forest Service Research Note PSW-205. Pacific Southwest Forest and Range Experiment Station, Berkeley, CA.
- WIGLEY, T. M. L., AND S. C. B. RAPER. 1993. Future changes in global mean temperature and sea level. Pp. 111–133 in R. A. Warrick, E. M. Barrow, and T. M. L. Wigley (editors). *Climate and sea level change: observations, projections, and implications*. Cambridge University Press, Cambridge, UK.
- WILCOX, B. A. 1998. Strategic integrated resources management planning for Marine Corps Base Hawaii, Kāne‘ohe Bay. Prepared by Institute for Sustainable Development, San Francisco, CA, and Kailua, HI.
- WILCOX, B. A., T. DENHAM, G. AHLBORN, K. DUIN, AND R. PALMER. 1997. Integrated resources management plan for the Nu‘upia Ponds Management Zone, Marine Corps Base Hawaii (MCBH), Island of O‘ahu, State of Hawai‘i. Final report. Prepared by Garcia and Associates, Honolulu, HI.
- WILCOX, B. A., E. B. GUINTHER, K. N. DUIN, AND H. MAYBAUM. 1998. Mokapū: manual for watershed health and water quality. Final report. Prepared by Institute for Sustainable Development and AECOS, INC., Kailua, HI.
- WILES, G. J. 1987a. Current research and future management of Marianas fruit bats (Chiroptera: Pteropodidae) on Guam. *Australian Mammalogy* 10:93–95.
- WILES, G. J. 1987b. The status of fruit bats on Guam. *Pacific Science* 41:148–157.
- WILLE, C. 1991. Paul Butler: parrot man of the Caribbean. *American Birds* 45:26–35.
- WILLIAMS, G. C. 1966. Natural selection, the costs of reproduction, and a refinement of Lack’s principle. *American Naturalist* 100:687–690.
- WILLIAMS, R. N. 1987. Alien birds on Oahu: 1944–1985. *‘Elepaio* 47:87–92.
- WILSON, A. C., H. OCHMAN, AND E. M. PRAGER. 1987. Molecular time scale for evolution. *Trends in Genetics* 3:241–247.
- WILSON, D. E., AND D. M. REEDER. 1993. *Mammal species of the world*. 2nd edition. Smithsonian Institution Press, Washington, D.C.

- WILSON, E. O. 1996. Hawaii: a world without social insects. Occasional Papers B. P. Bishop Museum 45: 3–7. Bishop Museum Press, Honolulu, HI.
- WILSON, S. B. 1890. Descriptions of some new species of Sandwich-Island birds. Proceedings of the Zoology Society London 1889:445–447.
- WILSON, S. B. 1891. Descriptions of two new species of Sandwich-Island birds. Annals and Magazine Natural History, Series 6, 7:460.
- WILSON, S. B., AND A. H. EVANS. 1890–1899. Aves Hawaiienses: the birds of the Sandwich Islands. R. H. Porter, London, UK.
- WILSON, U. W. 1991. Responses of three seabird species to El Niño events and other warm episodes on the Washington Coast, 1979–1990. Condor 93:853–858.
- WIRTH, W. W. 1965. Ceratopogonidae. Pp. 121–142 in A. Stone, C. W. Sabrosky, W. W. Wirth, R. H. Toote, and J. R. Coulson (editors). A catalog of the Diptera of America north of Mexico, Agriculture Handbook 276. U.S. Department of Agriculture, Washington, D.C.
- WIRTH, W. W., AND A. A. HUBERT. 1989. The *Culicoides* of Southeast Asia (Diptera: Ceratopogonidae). Memoirs of the American Entomological Institute No. 44. Ann Arbor, MI.
- WITH, K. A. 1994. The hazards of nesting near shrubs for a grassland bird, the McCown's Longspur. Condor 96:1009–1019.
- WITZELL, H., T. VON SCHANTZ, R. ZOOROB, AND C. AUFFRAY. 1994. Molecular characterization of three Mhc class II B haplotypes in the Ring-necked Pheasant. Immunogenetics 39:395–403.
- WITZELL, H., T. VON SCHANTZ, R. ZOOROB, AND C. AUFFRAY. 1995. *Rfp-Y*-like sequences assort independently of pheasant Mhc genes. Immunogenetics 42:68–71.
- WOLF, C. M., B. GRIFFITH, C. REED, AND S. A. TEMPLE. 1996. Avian and mammalian translocations: update and reanalysis of 1987 survey data. Conservation Biology 10:1142–1154.
- WOLF, L. L. 1978. Aggressive social organization in nectarivorous birds. American Zoologist 18:765–778.
- WOLF, L. L., F. G. STILES, AND F. R. HAINSWORTH. 1976. Ecological organization of a tropical, highland hummingbird community. Journal of Animal Ecology 45:349–379.
- WOLFE, E. W., W. S. WISE, AND G. B. DALRYMPLE. 1997. The geology and petrology of Mauna Kea volcano, Hawaii—a study of postshield volcanism. U.S. Geological Survey Professional Paper 1557. Reston, VA.
- WOODWARD, P. W. 1972. The natural history of Kure Atoll, Northwestern Hawaiian Islands. Atoll Research Bulletin 164:1–138.
- WOODWORTH, B. L. 1997. Brood parasitism, nest predation, and season-long reproductive success of a tropical island endemic. Condor 99:605–621.
- WOODWORTH, B. L. 1999. Modeling population dynamics of a songbird exposed to parasitism and predation and evaluating management options. Conservation Biology 13:67–76.
- WOODWORTH, B. L., J. FAABORG, AND W. J. ARENDT. 1998. Breeding and natal dispersal in the Puerto Rican Vireo. Journal of Field Ornithology 69:1–7.
- WOOLFENDEN, G. E., AND J. W. FITZPATRICK. 1984. The Florida Scrub Jay: demography of a cooperative-breeding bird. Princeton University Press, Princeton, NJ.
- WOOLLER, R. D., J. S. BRADLEY, I. J. SKIRA, AND D. L. SERVENTY. 1989. Short-tailed Shearwater. Pp. 405–417 in I. Newton (editor). Lifetime reproduction in birds. Academic Press, London, UK.
- WOOTTON, J. T., B. E. YOUNG, AND D. W. WINKLER. 1991. Ecological versus evolutionary hypotheses: demographic stasis and the Murray-Nolan clutch size equation. Evolution 45:1947–1950.
- WORLD CONSERVATION UNION (WCU). 1982. The IUCN Amphibia-reptilia red book: Part I. Gland, Switzerland.
- WORK, T. M., J. G. MASSEY, B. RIDEOUT, D. LEDIG, O. C. H. KWOK, AND J. P. DUBEY. 2000. Toxoplasmosis in Hawaiian Crows. Journal of Wildlife Diseases 36: 205–212.
- WORK, T. M., D. BALL, M. WOLCOTT. 1999. *Erysipelas* in a free-ranging Hawaiian Crow (*Corvus hawaiiensis*). Avian Diseases 43:338–341.
- WUNDERLE, J. M., JR., D. J. LODGE, AND R. B. WAIDE. 1992. Short-term effects of Hurricane Gilbert on terrestrial bird populations on Jamaica. Auk 109:148–166.
- WUNZ, G. A. 1992. Wild turkeys outside their historic range. Pp. 361–384 in J. G. Dickson (editor). The wild turkey: biology and management. Stackpole Books, Harrisburg, PA.
- WYLLIE, R. C. 1850. "Address." Transactions of the Royal Hawaiian Agricultural Society 1:36–49.
- YAFFEE, S. L., A. F. PHILLIPS, I. C. FRENTZ, P. W. HARDY, S. M. MALEKI, AND B. E. THORPE. 1996. Ecosystem management in the United States, an assessment of current experience. Island Press, Washington, D.C.
- YDENBERG, R. C., AND H. H. TH. PRINS. 1981. Spring grazing and the manipulation of food quality by Barnacle Geese. Journal of Applied Ecology 18:443–453.
- YEE, R. S. N., AND W. C. GAGNE. 1992. Activities and needs of the horticulture industry in relation to alien plant problems in Hawai'i. Pp. 712–725 in C. P. Stone, C. W. Smith, and J. T. Tunison (editors). Alien plant invasions in native ecosystems of Hawai'i: management and research. University of Hawai'i Cooperative National Park Resources Studies Unit, Honolulu, HI.
- YEN, D. E. 1974. The sweet potato and Oceania: an essay in ethnobotany. B. P. Bishop Museum Bulletin No. 236. Bishop Museum Press, Honolulu, HI.
- YEN, D. E., P. V. KIRCH, P. H. ROSENDAHL AND T. RILEY. 1972. Prehistoric agriculture in the upper valley of Makaha, Oahu. Pp. 59–94 in E. Ladd and D. E. Yen (editors). Interim Report 3, Department of Anthropology, B. P. Bishop Museum, Honolulu, HI.
- YOCUM, C. F. 1964. Waterfowl wintering in the Marshall Islands, Southwest Pacific Ocean. Auk 81:441–442.
- YOCUM, C. F. 1967. Ecology of feral goats in Haleakala National Park, Hawaii. American Midland Naturalist 77:418–451.

- YONEKURA, N., T. ISHII, Y. SAITO, Y. MAEDA, Y. MATSUSHIMA, E. MATSUMOTO, AND H. KAYANNE. 1988. Holocene fringe reefs and sea-level change in Mangaia Island, Southern Cook Islands. *Paleogeography, Paleoceanography, Paleoclimatology* 68:177–188.
- YORINKS, N. 1994. Effects of malaria on the daily activity budget of experimentally-infected Hawaiian forest birds. M.S. thesis. University of Wisconsin, Madison, WI.
- YORINKS, N., AND C.T. ATKINSON. 2000. Effects of malaria (*Plasmodium relictum*) on activity budgets of experimentally infected juvenile Apapane (*Himatione sanguinea*). *Auk* 117:731–738.
- YOUNG, A. M. 1971. Foraging for insects by a tropical hummingbird. *Condor* 73:36–45.
- YOUNG, B. E. 1994. The effects of food, nest predation and weather on the timing of breeding in tropical House Wrens. *Condor* 96:341–353.
- YOUNG, H. G., AND J. M. RHYMER. 1998. Meller's Duck: a threatened species receives recognition at last. *Biodiversity and Conservation* 7:1313–1323.
- ZAR, J. H. 1984. Biostatistical analysis. Prentice Hall, NJ.
- ZENNER DE POLANIA, I., AND O. M. WILCHES. 1992. Impact ecologico de la hormiga loca, *Paratrechina fulva* (Mayr), en el Municipio de Cimitarra (Santander). *Revista Colombiana de Entomologia* 18:14–22.
- ZINK, R. M. 1997. Species concepts. *Bulletin of the British Ornithologists' Club* 117:97–109.
- ZINK, R. M., AND M. C. McKITTRICK. 1995. The debate over species concepts and its implications for ornithology. *Auk* 112:701–719.
- ZUSI, R. L. 1978. The interorbital septum in cardueline finches. *Bulletin of the British Ornithologists' Club* 98: 5–10.
- ZUSI, R. L. 1989. A modified jaw muscle in the Maui Parrotbill (*Pseudonestor*: Drepanidae). *Condor* 91: 716–720.