

LITERATURE CITED

- ABERLE, B. L. 1993. The biology and control of introduced *Spartina* (cordgrass) worldwide and recommendations for its control in Washington. M.S. thesis, The Evergreen State College, Olympia, WA.
- ABLE, K. W., S. M. HGAN, AND S. A. BROWN. 2003. Mechanisms of marsh habitat alteration due to *Phragmites*: response of young-of-the-year mummichog (*Fundulus heteroclitus*) to treatment for *Phragmites* control. *Estuaries* 26:484–494.
- ACCURSO, L. M. 1992. Distribution and abundance of wintering waterfowl on San Francisco Bay 1988–1990. M.S. thesis, Humboldt State University, Arcata, CA.
- ACKERMAN, J. T., J. Y. TAKEKAWA, K. L. KRUSE, D. L. ORTHMEYER, J. L. YEE, C. R. ELY, D. H. WARD, K. S. BOLLINGER, AND D. M. MULCAHY. 2004. Using radiotelemetry to monitor cardiac response of free-living Tule Greater White-fronted Geese (*Anser albifrons elegans*) to human disturbance. *Wilson Bulletin* 116:146–151.
- ADAM, P. 1990. Saltmarsh ecology. Cambridge University Press, Cambridge, UK.
- ADAMS J. M., AND H. FAURE (EDITORS). 1997. Review and atlas of palaeovegetation: preliminary land ecosystem maps of the world since the last glacial maximum. Oak Ridge National Laboratory, TN. <<http://www.esd.ornl.gov/projects/qen/adams1.html>> (2 January 2006).
- ALBERTSON, J. D. 1995. Ecology of the California Clapper Rail in south San Francisco Bay. M.S. thesis, San Francisco State University, San Francisco, CA.
- ALBERTSON, J. D., AND J. G. EVENS. 2000. California Clapper Rail. Pp. 332–341 in P. R. Olofson (editor). Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- ALDRICH, J. W. 1984. Ecogeographical variation in size and proportions of Song Sparrows (*Melospiza melodia*). *Ornithological Monographs* 35:1–134.
- ALEXANDER, C. E., M. A. BROUTMAN, AND D. W. FIELD. 1986. An inventory of coastal wetlands of the USA. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Washington, DC.
- ALLANO, L., P. BONNET, P. CONSTANT, AND M. C. EYBERT. 1994. Habitat structure and population density in the Bluethroat *Luscinia svecica* Nannetum Mayquid. *Revue d' Ecologie La Tierre et la Vie* 49: 21–33.
- ALLEN, A. A. 1914. The Red-winged Blackbird: a study in the ecology of a cat-tail marsh. *Proceedings of the Linnaean Society of New York* 24–25:43–128.
- ALLISON, S. K. 1992. The influence of rainfall variability on the species composition of a northern California salt marsh plant assemblage. *Vegetatio* 101:145–160.
- ALLISON, S. K. 1995. Recovery from small-scale anthropogenic disturbances by northern California salt marsh plant assemblages. *Ecological Applications* 5:693–702.
- ALPERS, C., AND M. HUNERLACH. 2000. Mercury contamination from historic gold mining in California. USGS Fact Sheet FS-061-00. Department of the Interior, U.S. Geological Survey <<http://ca.water.usgs.gov/mercury/fs06100.html>> (6 June 2006).
- ÁLVAREZ-CASTAÑEDA, S. T., AND J. L. PATTON. 1999. Mamíferos del Noroeste de México. Centro de Investigaciones Biológicas del Noroeste, S. C. Baja California, México.
- AMBUEL, B., AND S. A. TEMPLE. 1983. Area-dependent changes in the bird communities and vegetation of southern Wisconsin forests. *Ecology* 64: 1057–1068.
- AMERICAN GEOPHYSICAL UNION. 2004. Salt marsh geomorphology: physical and ecological effects on landform. Chapman Conference Program. Halifax, NS, Canada.
- AMERICAN ORNITHOLOGISTS' UNION. 1931. Check-list of North American birds, 4th ed. Lancaster, PA.
- AMERICAN ORNITHOLOGISTS' UNION. 1957. Check-list of North American birds, 5th ed. Lord Baltimore Press, Baltimore, MD.
- AMERICAN ORNITHOLOGISTS' UNION. 1973. Thirty-second supplement to the American Ornithologists' Union check-list of North American birds. *Auk* 90:411–419.
- AMERICAN ORNITHOLOGISTS' UNION. 1983. Check-list of North American birds, 6th ed. Allen Press, Lawrence, KS.
- AMERICAN ORNITHOLOGISTS' UNION. 1995. Fortieth supplement to the American Ornithologists' Union Checklist of North American Birds. *Auk* 112:819–830.
- AMERICAN ORNITHOLOGISTS' UNION. 1998. Check-list of North American birds, 7th edition. American Ornithologists' Union, Washington, DC.
- AMMON, E. M. 1995. Lincoln's Sparrow (*Melospiza lincolni*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 191. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- AMOS, C. L., AND B. F. N. LONG. 1987. The sedimentary character of the Minas Basin, Bay of Fundy. Pp. 123–152 in S. B. McCann (editor). *The coastline of Canada*. Geological Survey of Canada Paper 80-10. Minister of Supply and Services, Ottawa, ON, Canada.
- AMOS, C. L., AND K. T. TEE. 1989. Suspended sediment transport processes in Cumberland Basin. *Journal of Geophysical Research* 94:14407–14417.
- ANDERSON, P. K. 1961. Variation in populations of brown snakes genus *Storeria* bordering on the Gulf of Mexico. *American Midland Naturalist* 66: 235–249.
- ANDRÉN, H. 1994. Effects of habitat fragmentation on birds and mammals in landscapes with different

- proportions of suitable habitat: a review. *Oikos* 71:355–366.
- ANDRESEN, H., J. P. BAKKER, M. BRONGERS, B. HEYDEMANN, AND U. IRMLER. 1990. Long-term changes of salt marsh communities by cattle grazing. *Vegetatio* 89:137–148.
- ANDREWS, A. 1990. Fragmentation of habitat by roads and utility corridors: a review. *Australian Zoologist* 2:130–141.
- ANDREWS, H. F. 1980. Nest-related behavior of the Clapper Rail (*Rallus longirostris*). Ph.D. dissertation, Rutgers University, Newark, NJ.
- ARBOGAST, B. S., S. V. EDWARDS, J. WAKELEY, P. BEERLI, AND J. B. SLOWINSKI. 2002. Estimating divergence times from molecular data on phylogenetic and population genetic timescales. *Annual Review of Ecology and Systematics* 33:707–740.
- ARBOGAST, B. S., AND G. J. KENAGY. 2001. Comparative phylogeography as an integrative approach to historical biogeography. *Journal of Biogeography* 28:819–825.
- ARCESE, P., J. N. M. SMITH, W. M. HOCHACHKA, C. M. ROGERS, AND D. LUDWIG. 1992. Stability, regulation, and the determination of abundance in an insular Song Sparrow population. *Ecology* 73:805–822.
- ARCESE, P., A. K. SOGGE, A. B. MARR, AND M. A. PATTEN. 2002. Song Sparrow (*Melospiza melodia*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 704. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- ASHMOLE, N. P. 1968. Body size, prey size, and ecological segregation in five sympatric tropical terns (Aves: Laridae). *Systematic Zoology* 17:292–304.
- ASHTON, R. E., AND P. S. ASHTON. 1991. *Handbook of reptiles and amphibians of Florida. Part two: lizards, turtles, and crocodilians*. Revised 2nd edition. Windward Publication, Miami, FL.
- ATWATER, B. F. 1979. Ancient processes at the site of southern San Francisco Bay: movement of the crust and changes in sea level. Pp. 31–45 in T. J. Conomos (editor). *San Francisco Bay: the urbanized estuary*. Pacific Division, American Association for the Advancement of Science, San Francisco, CA.
- ATWATER, B. F., AND D. F. BELKNAP. 1980. Tidal wetland deposits of the Sacramento-San Joaquin Delta, California. Pp. 89–103 in M. E. Field (editor). Quaternary depositional environments of the Pacific coast. Society of Economic Paleontologists and Mineralogists, Pacific Section, Los Angeles, CA.
- ATWATER, B. F., S. G. CONARD, J. N. DOWDEN, C. W. HEDEL, R. L. MACDONALD, AND W. SAVAGE. 1979. History, landforms, and vegetation of the estuary's tidal marshes. Pp. 347–380 in T. J. Conomos (editor). *San Francisco Bay: the urbanized estuary*. Pacific Division/American Association for the Advancement of Science, San Francisco, CA.
- ATWATER, B. F., C. W. HEDEL, AND E. J. HELLEY. 1977. Late quaternary depositional history, Holocene sea-level changes, and vertical crustal movement, southern San Francisco Bay, California. U.S. Geological Survey Professional Paper 1014, Menlo Park, CA.
- ATWATER, B. F., AND E. HEMPHILL-HALEY. 1997. Recurrence intervals for great earthquakes of the past 3,500 years at northeastern Willapa Bay, Washington. U.S. Geological Survey Professional Paper 1576, Seattle, WA.
- AUGER, P. J. 1989. Sex ratio and nesting behavior in a population of *Malaclemys terrapin* displaying temperature-dependent sex-determination. Ph.D. dissertation, Tufts University, Medford, MA.
- AUSTIN-SMITH, P. J. 1998. Tantramar dykeland status report. Canadian Wildlife Service, Sackville, NB, Canada.
- AUSTIN-SMITH, P., D. KIDSTON, A. MOSCOSO, AND M. RADER. 2000. Habitat delineation and verification of the Cole Harbour saltmarsh. Unpublished report Cole Harbour Joint Project. Cole Harbour, NS, Canada.
- AVISE, J. C. 2000. *Phylogeography: the history and formation of species*. Harvard University Press, Cambridge, MA.
- AVISE, J. C., AND R. M. BALL, JR. 1990. Principles of genealogical concordance in species concepts and biological taxonomy. Pp. 47–61 in D. Futuyma, and J. Antonovics (editors). *Oxford Surveys in Evolutionary Biology*. Oxford University Press, New York, NY.
- AVISE, J. C., AND R. A. LANSMAN. 1983. Polymorphism of mitochondrial DNA in populations of higher animals. Pp. 147–164 in M. Nei, and R. K. Koehn (editors). *Evolution of genes and proteins*. Sinauer Associates, Inc., Sunderland, MA.
- AVISE, J. C., AND W. S. NELSON. 1989. Molecular genetic relationships of the extinct Dusky Seaside Sparrow. *Science* 243:646–648.
- AVISE, J. C., J. C. PATTON, AND C. F. AQUADRO. 1980. Evolutionary genetics of birds II. Conservative protein evolution in North American sparrows and relatives. *Systematic Zoology* 29:323–334.
- AVISE, J. C., AND D. WALKER. 1998. Pleistocene phylogeographic effects on avian populations and the speciation process. *Proceedings of the Royal Society of London Series B Biological Sciences* 265:457–463.
- AVISE, J. C., AND R. M. ZINK. 1988. Molecular genetic divergence between avian sibling species: King and Clapper Rails, Long-billed and Short-billed Dowitchers, Boat-tailed and Great-tailed Grackles, and Tufted and Black-crested Titmice. *Auk* 105:516–528.
- AYRES, D. R., P. BAYE, AND D. R. STRONG. 2003. *Spartina foliosa* (Poaceae) – common species on the road to rarity? *Madroño* 50:209–213.
- AYRES, D. R., D. GARCIA-ROSSI, H. G. DAVIS, AND D. R. STRONG. 1999. Extent and degree of hybridization between exotic (*Spartina alterniflora*) and native (*S. foliosa*) cordgrass (Poaceae) in California, USA determined by random amplified polymorphic DNA (RAPDs). *Molecular Ecology* 8: 1179–1186.
- AYRES, D. R., D. L. SMITH, K. ZAREMBA, S. KLOHR, AND D. R. STRONG. 2004. Spread of exotic cordgrasses and hybrids (*Spartina* sp.) in the tidal marshes of San Francisco Bay, CA, USA. *Biological Invasions* 6:221–231.
- BAGLEY, M. J., AND J. B. GELLER. 2000. Microsatellite DNA analysis of native and invading populations of European green crabs. Pp. 241–242 in J. Pederson (editor) *Marine bioinvasions:*

- proceedings of the first national conference. MIT Sea Grant College Program, Cambridge, MA.
- BAIRD, C. 1995. Environmental chemistry. W.H. Freeman, New York, NY.
- BAJA CALIFORNIA WETLAND INVENTORY. 2004. <http://proesteros.cicese.mx/investigacion/inv_hum/cont/intro.htm> (20 January 2006).
- BAKER, J. L. 1973. Preliminary studies of the Dusky Seaside Sparrow on the St. Johns National Wildlife Refuge. Proceedings of the Annual Conference of Southeastern Association of Game and Fish Commissioners 27:207–214.
- BAKER, R. H. 1940. Effects of burning and grazing on rodent populations. Journal of Mammalogy 21:223.
- BAKER, W. S., F. E. HAYES, AND E. W. LATHROP. 1992. Avian use of vernal pools at the Santa Rosa Plateau Preserve, Santa Ana Mountains, California. Southwestern Naturalist 37:392–403.
- BAKKER, K. K., D. E. NAUGLE, AND K. F. HIGGINS. 2002. Incorporating landscape attributes into models for migratory grassland bird conservation. Conservation Biology 16:1638–1646.
- BALABAN, E. 1988. Cultural and genetic variation in the Swamp Sparrow (*Melospiza georgiana*). I. Song variation, genetic variation and their relationship. Behaviour 105:250–291.
- BALL, R. M., JR., AND J. C. AVISE. 1992. Mitochondrial DNA phylogeographic differentiation among avian populations and the evolutionary significance of subspecies. Auk 109:626–636.
- BALL, R. M., JR., S. FREEMAN, F. C. JAMES, E. BERMINGHAM, AND J. C. AVISE. 1988. Phylogeographic population structure of Red-winged Blackbirds assessed by mitochondrial DNA. Proceedings of the National Academy of Sciences 85:1558–1562.
- BALLARD, J. W. O., AND M. C. WHITLOCK. 2004. The incomplete natural history of mitochondria. Molecular Ecology 13:729–744.
- BANGS, O. 1898. The land mammals of peninsular Florida and the coast region of Georgia. Proceedings of the Boston Society of Natural History 27:1–6.
- BARD, E., B. HAMELIN, M. ARNOLD, L. MONTAGGIONI, G. CABIOCH, G. FAURE, AND F. ROUGERIE. 1996. Deglacial sea level record from Tahiti corals and the timing of global meltwater discharge. Nature 32: 241–244.
- BARDWELL, E., C. W. BENKMAN, AND W. R. GOULD. 2001. Adaptive geographic variation in Western Scrub-Jays. Ecology 82:2617–2627.
- BARKAY, T., M. GILLMAN, AND R. R. TURNER. 1997. Effects of dissolved organic carbon and salinity on bioavailability of mercury. Applied Environmental Microbiology 63:4267–4271.
- BARRIE, J. V., AND K. W. CONWAY. 2002. Rapid sea-level change and coastal evolution on the Pacific margin of Canada. Sedimentary Geology 150: 171–183.
- BARROWCLOUGH, G. F. 1983. Biochemical studies of microevolutionary processes. Pp. 223–261 in A. H. Brush, and G. A. J. Clark (editors). Perspectives in ornithology. Cambridge University Press, New York, NY.
- BARROWCLOUGH, G. F., R. J. GUTIERREZ, AND J. G. GROTH. 1999. Phylogeography of spotted owl (*Strix occidentalis*) populations based on mitochondrial DNA sequences: gene flow, genetic structure, and a novel biogeographic pattern. Evolution 53:919–931.
- BART, D., AND J. M. HARTMAN. 2003. The role of large rhizome dispersal and low salinity windows in the establishment of common reed, *Phragmites australis*, in salt marsh marshes: new links to human activities. Estuaries 2:436–443.
- BARTHOLOMEW, G. A., AND T. J. CADE. 1963. The water economy of land birds. Auk 80:504–539.
- BARTLETT, D. S., G. J. WHITING, AND J. M. HARTMAN. 1990. Use of vegetation indices to estimate intercepted solar radiation and net carbon dioxide exchange of a grass canopy. Remote Sensing of Environment 30:115–128.
- BASHAM, M. P., AND L. R. MEWALDT. 1987. Salt water tolerance and the distribution of south San Francisco Bay Song Sparrows. Condor 89:697–709.
- BASKIN, Y. 1994. California's ephemeral vernal pools may be a good model for speciation. BioScience 44:384–388.
- BASSINOT, F. C., L. D. LABEYRIE, E. VINCENT, X. QUIDELLEUR, N. J. SHACKLETON, AND Y. LANCELOT. 1994. The astronomical theory of climate and the age of the Brunhes-Matuyama magnetic reversal. Earth and Planetary Science Letters 126:91–108.
- BATT, B. D. J. (EDITOR). 1998. The Greater Snow Goose: report of the arctic goose habitat working group. Arctic Goose Joint Venture Special Publication. USDI Fish and Wildlife Service, Washington DC and Canadian Wildlife Service, Ottawa, ON, Canada.
- BATZER, D., AND V. RESH. 1992. Wetland management strategies that enhance waterfowl habitats can also control mosquitoes. American Mosquito Control Association Journal 8:117–125.
- BATZLI, G. O. 1986. Nutritional ecology of the California vole: effects of food quality on reproduction. Ecology 67:406–412.
- BAYE, P. R., P. M. FABER, AND B. GREWELL. 2000. Tidal marsh plants of the San Francisco estuary. Pp. 9–33 in P. R. Olofson (editor). Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- BEAL, F. E. L. 1907. Birds of California in relation to the fruit industry. USDA Biological Survey Bulletin No. 30., U.S. Government Printing Office, Washington, DC.
- BEECHER, W. J. 1951. Adaptations for food-getting in the American blackbirds. Auk 68:411–440.
- BEECHER, W. J. 1955. Late Pleistocene isolation in salt-marsh sparrows. Ecology 36:23–28.
- BEECHER, W. J. 1962. The bio-mechanics of the bird skull. Bulletin of the Chicago Academy of Sciences 11:10–33.
- BEER, J. R., AND D. TIBBITS. 1950. Nesting behavior of the Red-winged Blackbird. Flicker 22:61–77.
- BEIER, P., AND R. F. NOSS. 1998. Do habitat corridors provide connectivity? Conservation Biology 12: 1241–1252.
- BELANGER, L., AND J. BEDARD. 1994. Role of ice scouring and goose grubbing in marsh plant dynamics. Journal of Ecology 82:437–445.

- BELETSKY, L. D. 1996. The Red-winged Blackbird: the biology of a strongly polygynous songbird. Academic Press, San Diego, CA.
- BELETSKY, L. D., AND G. H. ORIANS. 1990. Male parental care in a population of Red-winged Blackbirds, 1983–1988. Canadian Journal of Zoology 68: 606–609.
- BELETSKY, L. D., AND G. H. ORIANS. 1991. Effects of breeding experience and familiarity on site fidelity in female Red-winged Blackbirds. Ecology 72: 787–796.
- BELETSKY, L. D., AND G. H. ORIANS. 1996. Red-winged Blackbirds: decision-making and reproductive success. University of Chicago Press, Chicago, IL.
- BELL, C., W. ACEVEDO, AND J. T. BUCHANAN. 1995. Pp. 723–734 in Dynamic mapping of urban regions: growth of the San Francisco Sacramento region. Proceedings, Urban and Regional Information Systems Association, San Antonio, TX. <http://landcover.usgs.gov/urban/umap/pubs/urisa_cb.asp> (16 January 2006).
- BELL, D. M., M. J. HAMILTON, C. W. EDWARDS, L. E. WIGGINS, R. M. MARTINEZ, R. E. STRAUSS, R. D. BRADLEY, AND R. J. BAKER. 2001. Patterns of karyotypic megaevolution in *Reithrodontomys*: evidence from a cytochrome-b phylogenetic hypothesis. Journal of Mammalogy 82:81–91.
- BELL, S. S., M. S. FONSECA, AND L. B. MOTEN. 1997. Linking restoration and landscape ecology. Restoration Ecology 5:318–323.
- BELLROSE, F. C. 1976. Ducks, geese, and swans of North America. Stackpole Books, Harrisburg, PA.
- BELSLY, D. A. 1980. Regression diagnostics: identifying influential data and sources of collinearity. Wiley, New York, NY.
- BENDER, D. J., T. A. CONTRERAS, AND L. FAHRIG. 1998. Habitat loss and population decline: a meta-analysis of the patch size effect. Ecology 79:517–533.
- BENKMAN, C. W. 1993. Adaptation to single resources and the evolution of crossbill (*Loxia*) diversity. Ecological Monographs 63:305–325.
- BENOIT, L. K. 1997. Impact of the spread of *Phragmites* on populations of tidal marsh birds in Connecticut. M.A. thesis, Connecticut College, New London, CT.
- BENOIT, L. K., AND R. A. ASKINS. 1999. Impact of the spread of *Phragmites* on the distribution of birds in Connecticut tidal marshes. Wetlands 19: 194–208.
- BENOIT, L. K., AND R. A. ASKINS. 2002. Relationship between habitat area and the distribution of tidal marsh birds. Wilson Bulletin 114:314–323.
- BENT, A. C. 1962a. Life histories of North American shorebirds. Part 1. Dover Publications, New York, NY.
- BENT, A. C. 1962b. Life histories of North American shorebirds: part 2. Dover Publications, New York, NY.
- BENT, A. C. 1963a. Life histories of North American gulls and terns. Dover Publications, New York, NY.
- BENT, A. C. 1963b. Life histories of North American marsh birds. Dover Publications, New York, NY.
- BERGIN, T. M., L. B. BEST, K. E. FREEMARK, AND K. J. KOEHLER. 2000. Effects of landscape structure on nest predation in roadsides of a midwestern agroecosystem: a multiscale analysis. Landscape Ecology 15:131–143.
- BERTNESS, M. D. 1999. The ecology of Atlantic shorelines. Sinauer Associates, Sunderland, MA.
- BERTNESS, M. D., AND A. M. ELLISON. 1987. Determinants of pattern in a New England marsh plant community. Ecological Monographs 57:129–147.
- BERTNESS, M. D., P. J. EWANCHUK, AND B. R. SILLIMAN. 2002. Anthropogenic modification of New England salt marshes. Proceedings National Academy of Sciences 99:1395–1398.
- BERTNESS, M. D., AND S. C. PENNINGS. 2000. Spatial variation in process and pattern in saltmarsh plant communities in eastern North America. Pp. 39–57 in M. P. Weinstein, and D. A. Kreeger (editors). Concepts and controversies in tidal marsh ecology. Kluwer Academic Publishers, Dordrecht, The Netherlands.
- BERTNESS, M. D., B. S. SILLIMAN, AND R. JEFFRIES. 2004. Saltmarshes under siege. American Scientist 92: 54–61.
- BEUCHAT, C. A. 1990. Body size, medullary thickness, and urine concentrating ability in mammals. American Journal of Physiology 258:298–308.
- BEUCHAT, C. A., M. R. PREEST, AND E. J. BRAUN. 1999. Glomerular and medullary architecture in the kidney of Anna's Hummingbird. Journal of Morphology 240:95–100.
- BHATTACHARYYA, A., AND V. CHAUDHARY. 1997. Is it possible to demarcate floristically the Pleistocene/Holocene transition in India? Palaeobotanist 46: 186–190.
- BIAS, M. A., AND M. L. MORRISON. 1999. Movements and home range of salt marsh harvest mice. Southwestern Naturalist 44:348–353.
- BICKHAM, J. W., T. LAMB, P. MINX, AND J. C. PATTON. 1996. Molecular systematics of the genus *Clemmys* and the intergeneric relationships of emydid turtles. Herpetologica 52:89–97.
- BISHOP, J. M. 1983. Incidental capture of diamondback terrapin by crab pots. Estuaries 6:426–430.
- BISHOP, R., R. ANDREWS, AND R. BRIDGES. 1979. Marsh management and its relationship to vegetation, waterfowl, and muskrats. Proceedings of the Iowa Academy of Sciences 86:50–56.
- BJÄRVALL, A., AND S. ULSTRÖM. 1986. The Mammals of Britain and Europe. Croom Helm, London, UK.
- BLAKLEY, N. R. 1976. Successive polygyny in upland nesting Red-winged Blackbirds. Condor 78: 129–133.
- BLAUSTEIN, A. R. 1980. Behavioral aspects of competition in a three species rodent guild of coastal southern California. Behavioural Ecology and Sociobiology 6:247–255.
- BLEAKNEY, J. S. 2004. Sods, soils and spades: the Acadians at Grand Pre and their dyke land legacy. McGill-Queen's University Press, Montreal, QC, Canada.
- BLEAKNEY, J. S., AND K. B. MEYER. 1979. Observations on saltmarsh pools, Minas Basin, Nova Scotia, 1965–1977. Proceedings of the Nova Scotia Institute of Science 29:353–371.
- BLOCHER, D., M. EINSPENNER, AND J. ZAJACKOWSKI. 1989. CHEF electrophoresis: a sensitive technique for the determination of DNA double-strand breaks.

- International Journal of Radiation Biology 56: 437–448.
- BÓ, M. S., J. P. ISACCH, A. I. MALIZIA, AND M. M. MARTÍNEZ. 2002. Lista comentada de los Mamíferos de la Reserva de Biósfera Mar Chiquita, Provincia de Buenos Aires, Argentina. Mastozoología Neotropical 9:5–11.
- BOAG, P. T., AND P. R. GRANT. 1981. Intense natural selection in a population of Darwin's finches (*Geospizinae*) in the Galápagos, Ecuador. Science 214:82–85.
- BOARMAN, W. I., AND K. H. BERRY. 1995. Common Ravens in the southwestern United States, 1968–92. Pp. 73–75 in E. L. LaRoe, G. S. Farris, and C. E. Puckett (editors). Our living resources: a report to the nation on the distribution, abundance, and health of U.S. plants, animals, and ecosystems. USDI National Biological Service, Washington, DC.
- BOESCH, D., D. LEVIN, D. NUMMEDAL, AND K. BOWLES. 1983. Subsidence in coastal Louisiana: causes, rates, and effects in wetlands. USDI Fish and Wildlife Service, FWS/OBS-83/26. Washington, DC.
- BOLGER, D. T., A. C. ALBERTS, AND M. E. SOULÉ. 1991. Occurrence patterns of bird species in habitat fragments: sampling, extinction, and nested species subsets. American Naturalist 137:155–166.
- BOLGER, D. T., T. A. SCOTT, AND J. T. ROTENBERRY. 1997. Breeding bird abundance in an urbanizing landscape in coastal southern California. Conservation Biology 11:406–421.
- BONGIORNO, S. F. 1970. Nest-site selection by adult Laughing Gulls (*Larus atricilla*). Animal Behaviour 18:434–444.
- BOTTI, F., D. WARENYCIA, AND D. BECKER. 1986. Utilization by salt marsh harvest mice *Reithrodontomys raviventris halicoetes* of a non-pickleweed marsh. California Fish and Game 72:62–64.
- BOULENGER, G. A. 1989. Catalogue of the chelonians, ryncocephalians, and crocodiles in the British Museum (Natural History). The British Museum, London, UK.
- BOUMANS, R. M., AND J. W. DAY, JR. 1993. High precision measurements of sediment elevation in shallow coastal areas using a sedimentation-erosion table. Estuaries 16:375–380.
- BOWMAN, R. I. 1961. Morphological differentiation and adaptation in the Galapagos Finches. University of California Press, Berkeley, CA.
- BOYER, K. B., AND J. B. ZEDLER. 1998. Effects of nitrogen additions on the vertical structure of a constructed cordgrass marsh. Ecological Applications 8: 692–705.
- BRADLEY, R. A. 1973. A population census of the Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*). Western Bird Bander 48:40–43.
- BRADLEY, R. A. 1994. Cultural change and geographic variation in the songs of the Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*). Bulletin of the Southern California Academy of Sciences 93:91–109.
- BRADLEY, R. S. 1985. Quaternary paleoclimatology: methods of paleoclimatic reconstruction. Unwin Hyman, Winchester, MA.
- BRANDL, R., A. KRISTIN, AND B. LEISLER. 1994. Dietary niche breadth in a local community of passerine birds: an analysis using phylogenetic contrasts. Oecologia 98:109–116.
- BRATTON, J. F., S. M. COLMAN, R. E. THIELER, AND R. R. SEAL. 2003. Birth of the modern Chesapeake Bay estuary between 7.4 and 8.2 ka and implications for global sea-level rise. Geo-Marine Letters 22: 188–197.
- BRAWLEY, A. H. 1994. Birds of the Connecticut River estuary: relating patterns of use to environmental conditions. Report to the Nature Conservancy—Connecticut Chapter, Conservation Biology Research Program, Hartford, CT.
- BRAWLEY, A. J., R. S. WARREN, AND R. A. ASKINS. 1998. Bird use of restoration and reference marshes within the Barn Island Wildlife Management Area, Stonington, Connecticut, USA. Environmental Management 22:625–633.
- BRAWN, J. D., S. K. ROBINSON, AND F. R. THOMPSON, III. 2001. The role of disturbance in the ecology and conservation of birds. Annual Review of Ecology and Systematics 32:251–276.
- BRAZIL, M. 1991. The birds of Japan. Smithsonian Institution Press, Washington, DC.
- BREAUX, A. M. 2000. Non-native predators: Norway rat and roof rat. Pp. 249–250 in P. R. Olofson (editor). Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife. San Francisco Bay Area Wetlands Ecosystem Goals Project, and San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- BREDY, J. P., AND R. G. BOTZLER. 1989. The effects of six environmental variables on *Pasteurella multocida* populations in water. Journal of Wildlife Diseases 25: 232–239.
- BRINSON, M., R. CHRISTIAN, AND L. K. BLUM. 1995. Multiple states in the sea-level induced transition from terrestrial forest to estuary. Estuaries 18:648–659.
- BRONIKOWSKI, A. M., AND S. J. ARNOLD. 2001. Cytochrome b phylogeny does not match subspecific classification in the western terrestrial garter snake, *Thamnophis elegans*. Copeia 2001:508–513.
- BROWN, A. F., AND P. W. ATKINSON. 1996. Habitat associations of coastal wintering passerines. Bird Study 43:188–200.
- BROWN, M., AND J. J. DINSMORE. 1986. Implications of marsh size and isolation for marsh bird management. Journal of Wildlife Management 50: 382–397.
- BRUSH, T., R. LENT, T. HRUBY, B. HARRINGTON, R. MARSHALL, AND W. MONTGOMERY. 1986. Habitat use by salt marsh birds and response to open marsh water management. Colonial Waterbirds 9:189–195.
- BUCHANAN, J. B. 2003. *Spartina* invasion of Pacific coast estuaries in the United States: implications for shorebird conservation. Wader Study Group Bulletin 100:47–49.
- BUCKLEY, F. G., AND P. A. BUCKLEY. 1982. Microenvironmental determinants of survival in saltmarsh-nesting Common Terns. Colonial Waterbirds 5:39–48.

- BURDICK, D. M., M. DIONNE, R. M. BOUMAN, AND F. T. SHORT. 1997. Ecological responses to tidal restoration of two northern New England salt marshes. *Wetlands Ecology and Management* 4:129–144.
- BURGER, J. 1977. Nesting behavior of Herring Gulls: invasion into *Spartina* salt marsh areas of New Jersey. *Condor* 79:162–169.
- BURGER, J. 1979. Nest repair behavior in birds nesting in salt marshes. *Journal of Comparative and Physiological Psychology* 93:189–199.
- BURGER, J. 1981. The effect of human activity on birds at a coastal bay. *Biological Conservation* 21:231–241.
- BURGER, J. 1982. The role of reproductive success in colony-site selection and abandonment in Black Skimmers (*Rynchops niger*). *Auk* 99:109–115.
- BURGER, J. 1993. Shorebird squeeze. *Natural History* 102:8–14.
- BURGER, J. 1998. Effects of motorboats and personal watercraft on flight behavior over a colony of Common Terns. *Condor* 100:528–534.
- BURGER, J., AND M. G. GOCHFELD. 1991a. The Common Tern: its breeding biology and social behavior. Columbia University Press, New York, NY.
- BURGER, J., AND M. GOCHFELD. 1991b. Human activity influence and diurnal and nocturnal foraging of Sanderlings (*Calidris alba*). *Condor* 93:259–265.
- BURGER, J., AND F. LESSER. 1978. Selection of colony sites and nest sites by Common Terns *Sterna hirundo* in Ocean County, New Jersey. *Ibis* 120:433–449.
- BURGER, J., I. C. T. NISBET, C. SAFINA, AND M. GOCHFELD. 1996. Temporal patterns in reproductive success in the endangered Roseate Tern *Sterna dougallii* nesting on Long Island, New York, and Bird Island, Massachusetts. *Auk* 113:131–142.
- BURGER, J., AND J. K. SHISLER. 1978a. The effects of ditching a salt marsh on colony and nest site selection by Herring Gulls (*Larus argentatus*). *American Midland Naturalist* 100:544–563.
- BURGER, J., AND J. SHISLER. 1978b. Nest-site selection of Willets in a New Jersey saltmarsh. *Wilson Bulletin* 90:599–607.
- BURGER, J., AND J. SHISLER. 1980. Colony and nest site selection in Laughing Gulls in response to tidal flooding. *Condor* 82:251–258.
- BURGER, J., J. K. SHISLER, AND F. R. LESSER. 1982. Avian utilization on six salt marshes in New Jersey. *Biological Conservation* 23:187–212.
- BURGMAN, M. A., S. FERSON, AND H. R. AKOAKAYA. 1993. Risk assessment in conservation biology. Chapman and Hall, London, UK.
- BURNELL, K. L. 1996. Genetic and cultural evolution in an endangered songbird, the Belding's Savannah Sparrow. Ph.D. dissertation, University of California, Santa Cruz, CA.
- BURNHAM, K. P., AND D. R. ANDERSON. 2002. Model selection and inference: a practical information-theoretic approach, 2nd edition. Springer Verlag, New York, NY.
- BYERS, J. E. 2000. Competition between two estuarine snails: implications for invasions of exotic species. *Ecology* 81:1225–1239.
- BYRNE, R., B. L. INGRAM, S. STARRATT, F. MALAMUD-ROAM, J. N. COLLINS, AND M. E. CONRAD. 2001. Carbon-isotope, diatom and pollen evidence for late Holocene salinity change in a brackish marsh in the San Francisco estuary. *Quaternary Research* 55:66–76.
- BYSTRAK, D. 1981. The North American breeding bird survey. *Studies in Avian Biology* 6:34–41.
- CADE, T. J., AND G. A. BARTHOLOMEW. 1959. Seawater and salt utilization by Savannah Sparrows. *Physiological Zoology* 32:230–238.
- CADE, T. J., AND L. GREENWALD. 1966. Nasal salt secretion in falconiform birds. *Condor* 68:338–350.
- CADWALLADR, D. A., AND J. V. MORLEY. 1973. Sheep grazing preferences on a salttings pasture and their significance for Widgeon (*Anas penelope* L.) conservation. *British Grasslands Society* 28: 235–242.
- CAHOON, D. R., J. W. DAY, JR., AND D. REED. 1999. The influence of surface and shallow subsurface soil processes on wetland elevation: a synthesis. *Current Topics in Wetland Biogeochemistry* 3:72–88.
- CAHOON, D. R., J. C. LYNCH, AND R. M. KNAUS. 1996. Improved cryogenic coring device for sampling wetland soils. *Journal of Sedimentary Research* 66:1025–1027.
- CAHOON, D. R., J. C. LYNCH, P. HENSEL, R. BOUMANS, B. C. PEREZ, B. SEGURA, AND J. W. DAY, JR. 2002. High-precision measurements of wetland sediment elevation: I. recent improvements to the sedimentation-erosion table. *Journal of Sedimentary Research* 72:730–733.
- CAHOON, D. R., AND R. E. TURNER. 1989. Accretion and canal impacts in a rapidly subsiding wetland: II. feldspar marker horizon technique. *Estuaries* 12: 260–268.
- CALFLORA. 2003. Calflora species profile for *Spartina foliosa* <<http://www.calflora.org>> (6 June 2006).
- CALIFORNIA ENERGY COMMISSION. 2003. California's oil refineries <<http://www.energy.ca.gov/oil/refineries.html>> (6 June 2006).
- CALLAWAY, J. C., AND M. N. JOSSELYN. 1992. The introduction and spread of smooth cordgrass (*Spartina alterniflora*) in south San Francisco Bay. *Estuaries* 15:218–226.
- CAM, E., J. E. HINES, J.-Y. MONNAT, J. D. NICHOLS, AND E. DANCHIN. 1998. Are adult nonbreeders prudent parents? The Kittiwake model. *Ecology* 79: 2917–2930.
- CAPEHART, A. A., AND C. T. HACKNEY. 1989. The potential role of roots and rhizomes in structuring salt-marsh benthic communities. *Estuaries* 12:119–122.
- CARLTON, J. T. 1979. History, biogeography, and ecology of the introduced marine and estuarine invertebrates of the Pacific coast of North America. Ph.D. dissertation, University of California, Davis, CA.
- CARR, A. 1952. *Handbook of turtles: the turtles of the United States, Canada, and Baja California*. Cornell University Press, Ithaca, NY.
- CARROLL, C. R. 1992. Ecological management of sensitive areas. Pp. 237–256 in P. Fiedler, and S. Jain (editors). *Conservation biology: the theory and practice of nature conservation preservation and management*. Chapman and Hall, New York, NY.
- CARSON, R., AND G. S. SPICER. 2003. A phylogenetic analysis of the emberizid sparrows based on three mitochondrial genes. *Molecular Phylogenetics and Evolution* 29:43–57.

- CASE, N. A., AND O. H. HEWITT. 1963. Nesting and productivity of the Red-winged Blackbird in relation to habitat. *Living Bird* 2:7-20.
- CASOTTI, G., AND E. J. BRAUN. 2000. Renal anatomy in sparrows from different environments. *Journal of Morphology* 243:283-291.
- CASTELLE, A. J., C. CONOLLY, M. EMERS, E. D. METZ, S. MEYER, M. WITTER, S. MAUERMAN, T. ERICKSON, AND S. S. COOKE. 1992. Wetland buffers: use and effectiveness. Adolfson Associates, Inc., Shorelands and Coastal Zone Management Program, Publication No. 92-10. Washington Department of Ecology, Olympia, WA.
- CATCHPOLE, E. A., Y. FAN, B. J. T. MORGAN, T. H. CLUTTON-BROCK, AND T. COULSON. 2004. Sexual dimorphism, survival and dispersal in red deer. *Journal of Agricultural, Biological, and Environmental Statistics* 9:1-26.
- CENTER FOR DISEASE CONTROL. 1998. Preventing emerging infectious disease: a strategy for the 21st Century. Centers for Disease Control and Prevention, U.S. Public Health Service, Department of Health and Human Services. Atlanta, GA.
- CENTER FOR DISEASE CONTROL. 2001. Epidemic/epizootic West Nile virus in the United States: revised guidelines for surveillance, prevention, and control. Centers for Disease Control and Prevention, National Center for Infectious Diseases, Division of Vector-Borne Infectious Diseases. Fort Collins, CO.
- CHABRECK, R. A. 1960. Coastal marsh impoundments for ducks in Louisiana. *Proceedings of the Southeastern Association of Game and Fish Commissioners* 14:24-29.
- CHABRECK, R. A. 1968. The relation of cattle and cattle grazing to marsh wildlife and plants in Louisiana. *Proceedings of the Annual Conference of Southeastern Association of Game and Fish Commissioners* 22:55-58.
- CHABRECK, R. A. 1981. Effect of burn date on re-growth rate of *Scirpus olneyi* and *Spartina patens*. *Proceedings of the Annual Conference of the Southeastern Association of Fish and Wildlife Agencies* 35:201-210.
- CHABRECK, R. A. 1988. Coastal marshes: ecology and wildlife management. University of Minnesota Press, Minneapolis, MN.
- CHABRECK, R. A., R. K. YANCEY, AND L. MCNEASE. 1974. Duck usage of management units in the Louisiana coastal marsh. *Proceedings of the Annual Meeting of the Southeastern Fish and Wildlife Association* 28:507-516.
- CHAGUÉ-GOFF, C., T. S. HAMILTON, AND D. B. SCOTT. 2001. Geochemical evidence for the recent changes in a saltmarsh, Chezzetcook Inlet, Nova Scotia, Canada. *Proceedings of the Nova Scotia Institute of Science* 41:149-159.
- CHALFOUN, A. D., F. R. THOMPSON II, AND M. J. RATNASWAMY. 2002. Nest predators and fragmentation: a review and meta-analysis. *Conservation Biology* 16:306-318.
- CHAMBERS, R. M. 1997. Porewater chemistry associated with *Phragmites* and *Spartina* in a Connecticut tidal marsh. *Wetlands* 17:360-367.
- CHAMBERS, R. M., L. M. MEYERSON, AND K. SALTONSTALL. 1999. Expansion of *Phragmites australis* into tidal wetlands of North America. *Aquatic Botany* 64: 261-273.
- CHAMBERS, R. M., D. T. OSGOOD, D. J. BART, AND F. MONTALTO. 2003. *Phragmites australis* invasion and expansion in tidal wetlands: interactions among salinity, sulfide, and hydrology. *Estuaries* 28: 398-406.
- CHAN, Y., AND P. ARCESE. 2002. Subspecific differentiation and conservation of Song Sparrows (*Melospiza melodia*) in the San Francisco Bay region inferred by microsatellite loci analysis. *Auk* 119:641-657.
- CHAN, Y., AND P. ARCESE. 2003. Morphological and microsatellite differentiation at a microgeographic scale. *Journal of Evolutionary Biology* 16:939-947.
- CHAPMAN, J. A., AND G. A. FELDHAMMER (EDITORS). 1982. Wild mammals of North America: biology, management, and economics. Johns Hopkins University Press, Baltimore, MD.
- CHAPMAN, V. J. 1974. Salt marshes and salt deserts of the world. J. Cramer, 2nd ed. Lehre, Austria.
- CHAPMAN, V. J., (EDITOR). 1977. Wet coastal ecosystems. *Ecosystems of the world*. Vol. 1. Elsevier Scientific, Amsterdam, The Netherlands.
- CHAPPELL, J., AND H. POLACH. 1991. Postglacial sea-level rise a coral record at Huon Peninsula, Papua-New Guinea. *Nature* 349:147-149.
- CHAPPLE, D. G. 2003. Ecology, life history and behavior of the Australian genus *Egernia* with comments on the evolution of sociality in lizards. *Herpetological Monographs* 17:145-180.
- CHEN, J. H., H. A. CURRAN, B. WHITE, AND G. J. WASSERBURG. 1991. Precise chronology of the last interglacial period: 234U-230Th data from fossil coral reefs in the Bahamas. *Geological Society of America Bulletin* 103:82-97.
- CHMURA, G. L. 1997. Salt meadow hay (*Spartina patens*). Pp. 107-115 in M. Burt, (editor). Habitat identification of critical species in the Quoddy region of the Gulf of Maine. Report to the Gulf of Maine Council on the Marine Environment, Augusta, ME.
- CHMURA, G. L., P. CHASE, AND J. BERCOVITCH. 1997. Climatic controls of the middle marsh zone in the Bay of Fundy. *Estuaries* 20:689-699.
- CHMURA, G. L., AND G. A. HUNG. 2004. Controls on salt-marsh accretion: a test in saltmarshes of eastern Canada. *Estuaries* 27:70-81.
- CLAGUE, J. J., AND T. S. JAMES. 2002. History and isostatic effects of the last ice sheet in southern British Columbia. *Quaternary Science Reviews* 21:71-87.
- CLARK, D. R. JR., K. S. FOERSTER, C. M. MARN, AND R. L. HO THEM. 1992. Uptake of environmental contaminants by small mammals in pickleweed habitats at San Francisco Bay, California. *Archives of Environmental Contamination and Toxicology* 22:389-396.
- CLARK, P. U., A. M. McCABE, A. C. MIX, AND A. J. WEAVER. 2004. Rapid rise of sea level 19,000 years ago and its global implications. *Science* 304: 1141-1144.
- CLARKE, J., B. A. HARRINGTON, T. HRUBY, AND F. E. WASSERMAN. 1984. The effect of ditching for mosquito control on salt marsh use by birds

- in Rowley, Massachusetts. *Journal of Field Ornithology* 55:160–180.
- CLAY, W. M. 1938. A synopsis of North American water snakes. *Copeia* 1938:173–182.
- CLIBURN, J. W. 1960. The phylogeny and zoogeography of North American *Natrix*. Ph.D. dissertation, University of Alabama, Tuscaloosa, AL.
- CLOERN, J. E. 1982. Does the benthos control phytoplankton biomass in south San Francisco Bay (California USA)? *Marine Ecology-Progress Series* 9:191–202.
- CODY, M. 1968. 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.
- CODY, M. L. 1985. *Habitat selection in birds*. Academic Press, Orlando, FL.
- COGSWELL, H. L. 2000. Song Sparrow. Pp. 374–385 in M. Olfson (editor). *Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish, and wildlife*. San Francisco Bay Area Wetlands Ecosystem Goals Project. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- COHEN, A. N. 1997. The invasion of the estuaries. Pp. 6–9 in K. Patten (editor). *Proceedings second international Spartina conference*. Washington State University/Cooperative Extension, Long Beach, WA.
- COHEN, A. N., AND J. T. CARLTON. 1995. Nonindigenous aquatic species in a United States estuary: a case study of the biological invasions of the San Francisco Bay and delta. Report for the USDI Fish and Wildlife Service, Washington, DC.
- COHEN, A. N., AND J. T. CARLTON. 1997. Transoceanic transport mechanisms: the introduction of the Chinese mitten crab *Eriocheir sinensis* to California. *Pacific Science* 51:1–11.
- COHEN, A. N., AND J. T. CARLTON. 1998. Accelerating invasion rate in a highly invaded estuary. *Science* 279:555–558.
- COHEN, A. N., J. T. CARLTON, AND M. C. FOUNTAIN. 1995. Introduction, dispersal and potential impacts of the green crab *Carcinus maenas* in San Francisco Bay. *Marine Biology* 122:225–237.
- COHEN, A. N., AND B. FOSTER. 2000. The regulation of biological pollution: preventing exotic species invasions from ballast water discharged into California coastal waters. *Golden Gate University Law Review* 30:787–883.
- COLLETTE, L. 1995. New Brunswick dykeland-strategy for protection, maintenance and development. Pp. 42–47 in J. Bain, and M. Evans (editors). *Dykelands Enhancement Workshop*. Canadian Wildlife Service, Sackville, NB, Canada.
- COLLIER, R. E. L., M. R. LEEDER, M. TROUT, G. FERENTINOS, E. LYBERIS, AND G. PAPATHEODOROU. 2000. High sediment yields and cool, wet winters: test of last glacial paleoclimates in the northern Mediterranean. *Geology* 28:999–1002.
- COLLINS, J. N. 2002. Invasion of San Francisco Bay by smooth cordgrass, *Spartina alterniflora*: a forecast of geomorphic effects on the intertidal zone. Unpublished report of San Francisco Estuary Institute, Oakland, CA.
- COLLINS, J. N., AND V. H. RESH. 1985. Utilization of natural and man-made habitats by the salt marsh Song Sparrow, *Melospiza melodia samuelis* (Baird). *California Fish and Game* 71: 40–52.
- COLLINS, J. N., AND V. H. RESH. 1989. Guidelines for the ecological control of mosquitoes in non-tidal wetlands of the San Francisco Bay area. California Mosquito and Vector Control Association, Elk Grove, CA.
- COLLINS, P. W., AND S. B. GEORGE. 1990. Systematics and taxonomy of island and mainland populations of western harvest mice (*Reithrodontomys megalotis*) in southern California. *Natural History Museum of Los Angeles County. Contributions in Science* 420:1–26.
- COLLOTY, B. M., J. B. ADAMS, AND G. C. BATE. 2000. The botanical importance of the estuaries in former Ciskei/Transkei. *Water Resource Commission report 812/1/00*. Water Research Commission, Pretoria, South Africa.
- COLMAN, S. M., AND R. B. MIXON. 1988. The record of major Quaternary sea-level changes in a large coastal plain estuary, Chesapeake Bay, eastern United States. *Palaeogeography, Palaeoclimatology, and Palaeoecology* 68:99–116.
- COLWELL, R. 2004. Using climate to predict infectious disease outbreaks: a review. Report for the Department of Communicable Diseases Surveillance and Response, the Department of Protection of the Human Environment, and the Roll Back Malaria Department. World Health Organization. Publication No. WHO/SDE/OEH/04.01. Geneva, Switzerland.
- COMBS, S. M., AND R. G. BOTZLER. 1991. Correlations of daily activity with avian cholera mortality among wildfowl. *Journal of Wildlife Diseases* 27: 543–550.
- CONANT, R. 1963. Evidence of the specific status of the water snake, *Natrix fasciata*. *American Museum Novitates* 2212:1–38.
- CONANT, R. 1969. A review of the water snakes of the genus *Natrix* in Mexico. *Bulletin of the American Museum of Natural History* 142:1–140.
- CONANT, R. 1975. *A field guide to the reptiles and amphibians of eastern and central North America*. Houghton Mifflin Co., Boston, MA.
- CONANT, R., AND J. T. COLLINS. 1991. *A field guide to reptiles and amphibians: eastern and central North America*. Houghton Mifflin, Boston, MA.
- CONANT, R., J. T. COLLINS, I. H. CONANT, T. R. JOHNSON, AND S. L. COLLINS. 1998. *A field guide to reptiles and amphibians of eastern and central North America*. Houghton Mifflin Co., New York, NY.
- CONANT, R., AND J. D. LAZELL, JR. 1973. The Carolina salt marsh snake: a distinct form of *Natrix sipedon*. *Brevoria* 400:1–13.
- CONGDON, J. D., A. E. DUNHAM, AND R. C. VAN LOBEN SELS. 1993. Delayed sexual maturity and demographics of Blanding's turtles (*Emydoidea blandingii*): implications for conservation and management of long-lived organisms. *Conservation Biology* 7: 826–833.
- CONNER, K. 2002. Assessment of community response to EHJV enhancement of Saint John River floodplain wetlands. *Wetlands and Coastal Habitat*

- Program-New Brunswick Department of Natural Resources and Energy, Fredericton, NB, Canada.
- CONROY, C. J., AND J. A. COOK. 2000. Phylogeography of a post-glacial colonizer: *Microtus longicaudus* (Rodentia: Muridae). *Molecular Ecology* 9: 165–175.
- CONTRA COSTA MOSQUITO AND VECTOR CONTROL DISTRICT. 1997. Initial study and mitigated negative declaration: the integrated vector management program of the Contra Costa Mosquito and Vector Control District. Concord, CA.
- CONWAY, C. J. 2005. Standardized North American marsh bird monitoring protocols. *Wildlife Research Report No. 2005-04*, U.S. Geological Survey, Arizona Cooperative Fish and Wildlife Research Unit, Tucson, AZ.
- CONWAY, C. J., AND J. P. GIBBS. 2001. Factors influencing detection probability and the benefits of call-broadcast surveys for monitoring marsh birds. Final Report, U.S. Geological Survey, Patuxent Wildlife Research Center, Laurel, MD.
- CONWAY, C. J., AND J. P. GIBBS. 2005. Effectiveness of call-broadcast surveys for monitoring marsh birds. *Auk* 122:26–35.
- CONWAY, C. J., AND C. P. NADEAU. 2006. Development and field-testing of survey methods for a continental marsh bird monitoring program in North America. *Wildlife Research Report No. 2005-11*. U.S. Geological Survey, Arizona Cooperative Fish and Wildlife Research Unit, Tucson, AZ.
- CONWAY, C. J., C. SULZMAN, AND B. A. RAULSTON. 2004. Factors affecting detection probability of California Black Rails. *Journal of Wildlife Management* 68:360–370.
- CONWAY, C. J., AND S. T. A. TIMMERMANS. 2005. Progress toward developing field protocols for a North American marsh bird monitoring program. Pages 997–1005 in C. J. Ralph, and T. D. Rich (editors). *Bird conservation implementation and integration in the Americas: Proceedings of the Third International Partners in Flight Conference*. Volume 2. USDA Forest Service General Technical Report PSW-GTR-191. USDA Forest Service, Pacific Southwest Research Station, Albany, CA.
- COOKE, A. S. 1973. Shell thinning in avian eggs by environmental pollutants. *Environmental Pollution* 4:85–152.
- CORDELL, J. R., AND S. M. MORRISON. 1996. The invasive Asian copepod *Pseudodiaptomus inopinus* in Oregon, Washington, and British Columbia estuaries. *Estuaries* 19:629–638.
- CORY, C. B., AND C. E. HELLMAYR. 1927. The catalogue of the birds of the Americas. Part V. Field Museum of Natural History publication No. 242. Chicago, IL.
- COSTA, C. S. B., J. C. MARANGONI, AND A. M. G. AZEVEDO. 2003. Plant zonation in irregularly flooded salt marshes: relative importance of stress tolerance and biological interactions. *Journal of Ecology* 91:951–965.
- COTTAM, C. 1938. The coordination of mosquito control with wildlife conservation. *Proceedings of the New Jersey Mosquito Extermination Association* 25:130–137.
- COULOMBE, H. N. 1970. The role of succulent halophytes in the water balance of salt marsh rodents. *Oecologia* 4:223–247.
- COWAN, F. B. M. 1969. Gross and microscopic anatomy of the orbital glands of *Malaclemys* and other emydine turtles. *Canadian Journal of Zoology* 47:723–729.
- COWAN, F. B. M. 1971. The ultrastructure of the lachrymal “salt” gland and the Harderian gland in the euryhaline *Malaclemys* and some closely related stenohaline emydines. *Canadian Journal of Zoology* 49:691–697.
- COWIE, I. D., AND P. A. WARNER. 1993. Alien plant species invasive in Kakadu National Park, tropical northern Australia. *Biological Conservation* 63: 127–135.
- COYER, J. A., A. F. PETERS, W. T. STAM, AND J. L. OLSEN. 2003. Post-ice age recolonization and differentiation of *Fucus serratus* L. (Phaeophyceae; Fucaceae) populations in northern Europe. *Molecular Ecology* 12:1817.
- CRAIG, R. J., AND K. G. BEAL. 1992. The influence of habitat variables on marsh bird communities of the Connecticut River Estuary. *Wilson Bulletin* 104:295–311.
- CRAMP, S. (EDITOR). 1988. *Handbook of the birds of Europe, the Middle East, and North Africa. The birds of the western Palearctic*. Vol. V. tyrant flycatchers to thrushes. Oxford University Press, Oxford, UK.
- CRAMP, S. (EDITOR). 1992. *Handbook of the birds of Europe, the Middle East, and North Africa. The birds of the western Palearctic*. Vol. VI. warblers. Oxford University Press, Oxford, UK.
- CRAMP, S., AND C. M. PERRINS (EDITORS). 1993. *Handbook of the birds of Europe, the Middle East, and North Africa: The birds of the western Palearctic*. Vol. VII. flycatchers to shrikes. Oxford University Press, Oxford, UK.
- CRAMP, S., AND C. M. PERRINS (EDITORS). 1994. *Handbook of the birds of Europe, the Middle East, and North Africa. The birds of the western Palearctic*. Vol. VIII. crows to finches. Oxford University Press, Oxford, UK.
- CRANDALL, K. A., O. R. P. BININDA-EMONDS, G. MACE, AND R. K. WAYNE. 2000. Considering evolutionary processes in conservation biology. *Trends in Ecology and Evolution* 15:290–295.
- CRIMMINS, B. S., P. DOELLING-BROWN, D. P. KELSO, AND G. D. FOSTER. 2002. Bioaccumulation of PCBs in aquatic biota from a tidal freshwater marsh ecosystem. *Archives of Environmental Contamination and Toxicology* 42:296–404.
- CRONK, Q. C. B., AND J. L. FULLER. 1995. *Plant invaders*. Chapman and Hall, London, UK.
- CROOKS, J. A. 1998. Habitat alteration and community-level effects of an exotic mussel, *Musculista senhousia*. *Marine Ecology Progress Series* 162: 137–152.
- CROUSE, D. T., L. B. CROWDER, AND H. CASWELL. 1987. A stage-based population model for loggerhead sea turtles and implications for conservation. *Ecology* 68:1412–1423.
- CUBASCH, U., AND G. A. MEEHL. 2001. Projections of future climate change. Pp. 525–582 in J. T.

- Houghton, Y. Ding, D. J. Griggs, M. Noguer, P. J. van der Linden, X. Dai, K. Maskell, and C. A. Johnson (editors). Climate change 2001: the scientific basis. Cambridge University Press, Cambridge, UK.
- CUNEO, K. 1987. San Francisco Bay salt marsh vegetation geography and ecology: a baseline for use in impact assessment and restoration planning. Ph.D. dissertation, University of California, Berkeley, CA.
- CURNUTT, J. L., A. L. MAYER, T. M. BROOKS, L. MANNE, O. BASS, JR., D. M. FLEMING, M. P. NOTT, AND S. L. PIMM. 1998. Population dynamics of the endangered Cape Sable Seaside Sparrow. *Animal Conservation* 1:11–21.
- CUTTER, G. A., AND M. L. C. SAN DIEGO-MCGLONE. 1990. Temporal variability of selenium fluxes in San Francisco Bay. *Science of the Total Environment* 97/98:235–250.
- D'ANTONIO, C. M., AND P. M. VITOUSEK. 1992. Biological invasions by exotic grasses, the grass/fire cycle and global change. *Annual Review of Ecology and Systematics* 23:63–87.
- DACHANG, Z. 1996. Vegetation of coastal China. Beijing Ocean Press, Beijing, China. (in Chinese)
- DAEHLER, C. C. 1998. Variation in self-fertility and the reproductive advantage of self-fertility for an invading plant (*Spartina alterniflora*). *Evolutionary Ecology* 12:553–568.
- DAEHLER, C. C., AND D. R. STRONG. 1996. Status, prediction and prevention of introduced cordgrass *Spartina* spp. invasions in Pacific estuaries, USA. *Biological Conservation* 78:51–58.
- DAEHLER, C. C., AND D. R. STRONG. 1997. Hybridization between introduced smooth cordgrass (*Spartina alterniflora*; Poaceae) and native California cordgrass (*S. foliosa*) in San Francisco Bay, California, USA. *American Journal of Botany* 84:607–611.
- DAHLGREN, R. B., AND C. E. KORSCHGEN. 1992. Human disturbances of waterfowl: an annotated bibliography. USDI Fish and Wildlife Service, Resource Publication 188. Washington, DC.
- DAIBER, F. C. 1982. Animals of the tidal marsh. Van Nostrand Reinhold, New York, NY.
- DAIBER, F. C. 1986. Conservation of tidal marshes. Van Nostrand Reinhold, New York, NY.
- DAIBER, F. 1987. A brief history of tidal marsh mosquito control, Pp. 233–252 in W. R. Whitman, and W. H. Meredith (editors). Waterfowl and wetlands symposium: proceedings of a symposium on waterfowl and wetlands management in the coastal zone of the Atlantic Flyway. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover, DE.
- DALE, P. E. R., AND K. HULSMAN. 1990. A critical review of salt marsh management methods for mosquito control. *Reviews in Aquatic Sciences* 3:281–311.
- DALE, P. E. R., P. T. DALE, K. HULSMAN, AND B. H. KAY. 1993. Runnelling to control saltmarsh mosquitoes: long-term efficacy and environmental impacts. *Journal American Mosquito Association* 9:174–181.
- DAME, R. D., M. ALBER, D. ALLEN, M. MALLIN, C. MONTAGUE, A. LEWITUS, A. CHALMERS, R. GARDNER, C. GILMAN, B. KJERFVE, J. PINCKNEY, AND N. SMITH. 2000. Estuaries of the south Atlantic coast of North America: their geographical signature. *Estuaries* 23:793–819.
- DANIELS, R. C., T. W. WHITE, AND K. K. CHAPMAN. 1993. Sea-level rise: destruction of threatened and endangered species habitat in South Carolina. *Environmental Management* 17:373–385.
- DAVENPORT, J., AND E. A. MACEDO. 1990. Behavioral osmotic control in the euryhaline diamondback terrapin *Malaclemys terrapin*: responses to low salinity and rainfall. *Journal of Zoology (London)* 220:487–496.
- DAVENPORT, J., AND T. M. WONG. 1986. Observations on the water economy of the estuarine turtles *Batagur baska* (Gray) and *Callagur borneoensis* (Schlegel and Muller). *Comparative Biochemistry and Physiology* 84A:703–707.
- DAVENPORT, J., T. M. WONG, AND J. EAST. 1992. Feeding and digestion in the omnivorous estuarine turtle *Batagur baska* (Gray). *Herpetological Journal* 2: 133–139.
- DAVIDSON, N. C., AND P. I. ROTHWELL. 1993. Disturbance to waterfowl on estuaries: the conservation and coastal management implications of current knowledge. *Wader Study Group Bulletin* 68: 98–105.
- DAVIS, D. S., AND S. BROWNE (EDITORS). 1996a. The natural history of Nova Scotia—topics and habitats. Government of Nova Scotia and Nimbus Publishing, Halifax, NS, Canada.
- DAVIS, D. S., AND S. BROWNE (EDITORS). 1996b. The natural history of Nova Scotia—theme regions. Government of Nova Scotia and Nimbus Publishing, Halifax, NS, Canada.
- DAVIS, F. W., P. A. STINE, D. M. STOMS, M. I. BORCHERT, AND A. D. HOLLANDER. 1995. Gap analysis of the actual vegetation of California 1. The southwestern region. *Madroño* 42:40–78.
- DAVIS, J. A., M. D. MAY, B. K. GREENFIELD, R. FAIREY, C. ROBERTS, G. ICHIKAWA, M. S. STOELTING, J. S. BECKER, AND R. S. TJEERDEMA. 2002. Contaminant concentrations in sportfish from San Francisco Bay, 1997. *Marine Pollution Bulletin* 44:1117–1129.
- DAVIS, S. D., J. B. WILLIAMS, W. J. ADAMS, AND S. L. BROWN. 1984. The effect of egg temperature on attentiveness in the Belding's Savannah Sparrow. *Auk* 101:556–566.
- DAY, R. H., R. K. HOLZ, AND J. W. DAY, JR. 1990. An inventory of wetland impoundments in the coastal zone of Louisiana, USA: historical trends. *Environmental Management* 14:229–240.
- DE GROOT, D. S. 1927. The California Clapper Rail: its nesting habits, enemies and habitat. *Condor* 29: 259–270.
- DEPARTMENT OF WATER RESOURCES. 1993–1999. County land use survey data. California Department of Water Resources, Division of Planning and Local Assistance, Sacramento, CA. <<http://www.landwateruse.water.ca.gov/basicdata/landuse/landusesurvey.cfm>> (2 May 2006).
- DERAGON, W. R. 1988. Breeding ecology of Seaside and Sharp-tailed sparrows in Rhode Island salt marshes. M.S. thesis, University of Rhode Island, Kingston, RI.

- DEPLANQUE, C., AND D. J. MOSSMAN. 2000. Fundamentals of Fundy tides. Pp. 178–203 in T. Chopin, and P. G. Wells (editors). Opportunities and challenges for protecting, restoring and enhancing coastal habitats in the Bay of Fundy. 4th Bay of Fundy Science Workshop. Environment Canada-Atlantic Region, Saint John, NB, Canada.
- DEPLANQUE, C., AND D. J. MOSSMAN. 2004. Tides and their seminal impact on the geology, geography, history, and socio-economics of the Bay of Fundy, eastern Canada. *Atlantic Geology* 40: 1–130.
- DESZALAY, F. A., AND V. H. RESH. 1997. Responses of wetland invertebrates and plants important in waterfowl diets to burning and mowing of emergent vegetation. *Wetlands* 17:149–156.
- DETTINGER, M. D., AND D. R. CAYAN. 2003. Interseasonal covariability of Sierra Nevada streamflow and San Francisco Bay salinity. *Journal of Hydrology* 277:164–181.
- DETTINGER, M., W. BENNETT, D. CAYAN, J. FLORSHEIM, M. HUGHES, B. L. INGRAM, N. KNOWLES, F. MALAMUD-ROAM, D. PETERSON, K. REDMOND, AND L. SMITH. 2003. Climate science issues and needs of the Calfed Bay-Delta Program. American Meteorological Society, 83rd Annual Meeting, Impacts of Water Variability Symposium. Long Beach, CA. <http://ams.confex.com/ams/pdffiles/52444.pdf> (6 June 2006).
- DIAS, R. A., AND G. N. MAURÍO. 1998. Lista preliminar de avifauna da extrimidante sudoeste de Mangueira e arredores e Rio Grande do Sul. *Ornitologicas* 86: 10–11.
- DIFFERNBAUGH, N. S., AND L. C. SLOAN. 2004. Mid-Holocene orbital forcing of regional-scale climate: a case study of western North America using a high-resolution RCM. *Journal of Climate* 17: 2927–2937.
- DIJKEMA, K. S. 1990. Salt and brackish marshes around the Baltic Sea and adjacent parts of the North Sea: their development and management. *Biological Conservation* 51:191–209.
- DiQUINZIO, D. A. 1999. Population and breeding ecology of the promiscuous Saltmarsh Sharp-tailed Sparrow in Rhode Island salt marshes. M.S. thesis, University of Rhode Island, Kingston, RI.
- DiQUINZIO, D. A., P. W. C. PATON, AND W. R. EDDLEMAN. 2001. Site fidelity, philopatry, and survival of promiscuous Saltmarsh Sharp-tailed Sparrows in Rhode Island. *Auk* 118:888–899.
- DiQUINZIO, D. A., P. W. C. PATON, AND W. R. EDDLEMAN. 2002. Nesting ecology of Saltmarsh Sharp-tailed Sparrows in a tidally restricted salt marsh. *Wetlands* 22:179–185.
- DIXON, J. 1908. A new harvest mouse from the salt marshes of San Francisco Bay, California. *Proceedings of the Biological Society of Washington* 21:197–198.
- DOAK, D., P. KAREIVA, AND B. KLEPETKA. 1994. Modeling population viability for the desert tortoise in the western Mohave Desert. *Ecological Applications* 4:446–460.
- DOLBEER, R. A. 1976. Reproductive rate and temporal spacing of nesting of Red-winged Blackbirds in upland habitat. *Auk* 93:343–355.
- DONNELLY, J. P., AND M. D. BERTNESS. 2001. Rapid shoreward encroachment of salt marsh cord-grass in response to accelerated sea-level rise. *Proceedings of the National Academy of Sciences* 98:14218–14223.
- DOUGLAS, B. 1991. Global sea level rise. *Journal of Geophysical Research* 96:6981–6992.
- DRAKE, J. A., H. A. MOONEY, F. DICASTRI, R. H. GROVES, F. J. KRUGER, M. REJMANEK, AND M. WILLIAMSON (EDITORS). 1989. *Biological invasions: a global perspective*. Scope 37. John Wiley and Sons, Chichester, UK.
- DRAMSTAD, W. E., J. D. OLSON, AND R. T. T. FORMAN. 1996. *Landscape ecology principles in landscape architecture and land-use planning*. Island Press, Washington, DC.
- DREYER, G. D., AND W. A. NIERING. 1995. Tidal marshes of Long Island Sound: ecology, history, and restoration. *Bulletin No. 34*. Connecticut College Arboretum, New London, CT.
- DUNHAM, A. E., B. W. GRANT, AND K. L. OVERALL. 1989. The interface between biophysical ecology and population ecology of terrestrial vertebrate ectotherms. *Physiological Zoology* 62:335–355.
- DUNSON, W. A. 1980. The relationship of sodium and water balance to survival in sea water of estuarine and freshwater races of the snakes *Nerodia fasciata*, *N. sipedon*, and *N. valida*. *Copeia* 1980:268–280.
- DUNSON, W. A. 1981. Behavioral osmoregulation by the key mud turtle (*Kinosternon b. baurii*). *Journal of Herpetology* 15:163–173.
- DUNSON, W. A. 1985. Effect of water salinity and food salt content on growth and sodium efflux of hatchling diamondback terrapins (*Malaclemys*). *Physiological Zoology* 58:736–747.
- DUNSON, W. A. 1986. Estuarine populations of the snapping turtle (*Chelydra*) as a model for the evolution of marine adaptation in reptiles. *Copeia* 1986:741–756.
- DUNSON, W. A., AND F. J. MAZZOTTI. 1989. Salinity as a limiting factor in the distribution of reptiles in Florida Bay: a theory for the estuarine origin of marine snakes and turtles. *Bulletin of Marine Science* 44:229–244.
- DUNSON, W. A., AND J. TRAVIS. 1994. Patterns in the evolution and physiological specialization in salt-marsh animals. *Estuaries* 17:102–110.
- DUNTON, K. H., B. HARDEGEE, AND T. E. WHITLEDGE. 2001. Response of estuarine marsh vegetation to interannual variations in precipitation. *Estuaries* 24:851–861.
- DURSO, S. L. 1996. The biology and control of mosquitoes in California. Mosquito and Vector Control Association of California, Elk Grove, CA.
- DYER, M. I., J. PINOWSKI, AND B. PINOWSKA. 1977. Population dynamics. Pp. 53–105 in J. Pinowski, and S. C. Kendal (editors). *Granivorous birds in ecosystems*. Cambridge University Press, Cambridge, UK.
- EARLE, J. C., AND K. A. KERSHAW. 1989. Vegetation patterns in James Bay (Canada) coastal marshes: III. Salinity and elevation as factors influencing plant zonations. *Canadian Journal of Botany* 67: 2967–2974.
- ECKER, S. A., AND L. SARTI. 1997. Distant fisheries implicated in the loss of the world's largest

- leatherback nesting population. *Marine Turtle Newsletter* 78:2-7.
- EDDLEMAN, W. R., AND C. J. CONWAY. 1998. Clapper Rail (*Rallus longirostris*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 340. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- EDDLEMAN, W. R., R. E. FLORES, AND M. L. LEGARE. 1994. Black Rail (*Laterallus jamaicensis*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 123. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- EDWARDS, R. L., J. W. BECK, G. S. BURR., D. J. DONAHUE, J. M. A. CHAPPELL, A. L. BLOOM, E. R. M. DRUFFEL, AND F. W. TAYLOR. 1993. A large drop in atmospheric C-14/C-12 and reduced melting in the Younger Dryas, documented with TH-230 ages of corals. *Science* 260:962-968.
- EDWARDS, S. V., AND P. BEERLI. 2000. Perspective: gene divergence, population divergence, and the variance in coalescence time in phylogeographic studies. *Evolution* 54:1839-1854.
- EHRLICH, P. R., D. S. DOBKIN, AND D. WHEYE. 1988. *The birder's handbook: a field guide to the natural history of North American birds*. Simon and Schuster Inc., New York, NY.
- EISENBERG, J. F., AND K. H. REDFORD. 1999. *Mammals of the Neotropics: the central Neotropics*. University of Chicago Press, Chicago, IL.
- EL-BEGARMI, M. M., M. L. SUNDE, AND H. E. GANTHER. 1977. A mutual protective effect of mercury and selenium in Japanese quail. *Poultry Science* 56: 313-322.
- ELBROND, V. S., V. DANTZER, T. M. MAYHEW, AND E. SKADHAUGE. 1993. Dietary and aldosterone effects on the morphology and electrophysiology of the chicken coprodeum. Pp. 217-226 in P. J. Sharp (editor). *Avian endocrinology*. Society for Endocrinology, Bristol, UK.
- ELEUTERIUS, L. N. 1990. *Tidal marsh plants*. Pelican Publishing Company, Gretna, LA.
- ELKIE, P., R. REMPEL, AND A. CARR. 1999. Patch analyst user's manual. TM-002, Ontario Ministry of Natural Resources, Northwest Science and Technology, Thunder Bay, ON, Canada.
- ELLIS, H. K., III. 1980. Ecology and breeding biology of the Swamp Sparrow in a southern Rhode Island peatland. M. S. thesis, University of Rhode Island, Kingston, RI.
- EMERY, K. O., AND D. G. AUBREY. 1991. Sea levels, land levels, and tide gauges. Springer-Verlag, New York, NY.
- EMERY, N., P. EWANCHUCK, AND M. D. BERTNESS. 2001. Nutrients, mechanisms of competition, and the zonation of plants across salt marsh landscapes. *Ecology* 82:2471-2484.
- EMMETT, R., R. LLANSO, J. NEWTON, R. THOM, M. HORNBERGER, C. MORGAN, C. LEVINGS, A. COPPING, AND P. FISHMAN. 2000. Geographic signatures of North American west coast estuaries. *Estuaries* 23:765-779.
- EMMONS, L. H. 1990. *Neotropical rainforest mammals: a field guide*. University of Chicago, Chicago, IL.
- ENS, B., J. D. GOSS-CUSTARD, AND T. P. WEBER. 1995. Effects of climate change on bird migration strategies along the east Atlantic flyway. Report No. 410 100 075. Dutch National Research Program on Global Air Pollution and Climate Change, Texel, The Netherlands.
- ENVIRONMENTAL PROTECTION AGENCY. 1992. Guidelines for exposure assessment. *Federal Register* 57: 22888-22938.
- ENVIRONMENTAL PROTECTION AGENCY. 1996. PCBs: cancer dose-response assessment and application to environmental mixtures. National Center for Environmental Assessment. Office of Research and Development. Environmental Protection Agency/600/P-96/001F. Washington, DC.
- ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE. 1999. Spatial analyst 1 extension for ArcView 3.x. Environmental Systems Research Institute, Redlands, CA.
- ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE. 2000. ArcView 3.2a. Environmental Systems Research Institute, Redlands, CA.
- ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE. 2002. ArcGIS 8.2. Environmental Systems Research Institute, Redlands, CA.
- EPSTEIN, M. B., AND R. L. JOYNER. 1988. Waterbird use of brackish wetlands managed for waterfowl. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 42:476-490.
- ERNST, C. H., AND R. W. BARBOUR. 1989. *Turtles of the world*. Smithsonian Institution Press, Washington, DC.
- ERNST, C. H., J. E. LOVICH, AND R. W. BARBOUR. 1994. *Turtles of the United States and Canada*. Smithsonian Institution Press, Washington, DC.
- ERRINGTON, P. 1961. *Muskrats and marsh management*. Stackpole Company, Harrisburg, PA.
- ERSKINE, A. J. 1992. *Atlas of breeding birds of the Maritime Provinces*. Nimbus Publishing and the Nova Scotia Museum, Halifax, NS, Canada.
- ERWIN, R. M. 1980. Breeding habitat use by colonially nesting waterbirds in two mid-Atlantic U.S. regions under different regimes of human disturbance. *Biological Conservation* 18:39-51.
- ERWIN, R. M., C. J. CONWAY, AND S. W. HADDEN. 2002. Species occurrence of marsh birds at Cape Cod National Seashore, Massachusetts. *Northeastern Naturalist* 9:1-12.
- ERWIN, R. M., D. DAWSON, D. STOTTS, L. McALLISTER, AND P. GEISSLER. 1991. Open marsh water management in the mid-Atlantic region: aerial surveys of waterbird use. *Wetlands* 11:209-227.
- ERWIN, R. M., J. S. HATFIELD, M. A. HOWE, AND S. S. KLUGMAN. 1994. Waterbird use of saltmarsh ponds created for open marsh water management. *Journal of Wildlife Management* 58:516-524.
- ERWIN, R. M., J. S. HATFIELD, AND T. J. WILMERS. 1995. The value and vulnerability of small estuarine islands for conserving metapopulations of breeding waterbirds. *Biological Conservation* 71:187-191.
- ERWIN, R. M., D. JENKINS, AND D. H. ALLEN. 2003. Created versus natural coastal islands: Atlantic waterbird populations, habitat choices and management implications. *Estuaries* 26:949-955.
- ERWIN, R. M., B. R. TRUITT, AND J. E. JIMENEZ. 2001. Ground-nesting waterbirds and mammalian

- carnivores in the Virginia barrier island region: running out of options. *Journal of Coastal Research* 17:292–296.
- ESSELINK, P., W. ZIJLSTRA, K. DIJKEMA, AND R. VAN DIGGELEN. 2000. The effects of decreased management on plant-species distribution patterns in a saltmarsh nature reserve in the Wadden Sea. *Biological Conservation* 93:61–76.
- ESTUARY RESTORATION ACT. 2000. Pub. L. 106-457, title I, Nov. 7, 2000. 114 Stat. 1958 (33 U.S.C. 2901 et seq.)
- EVENS, J. G., AND N. NUR. 2002. California Black Rails in the San Francisco Bay region: spatial and temporal variation in distribution and abundance. *Bird Populations* 6:1–12.
- EVENS, J., AND G. W. PAGE. 1986. Predation on Black Rails during high tides in salt marshes. *Condor* 88:107–109.
- EVENS, J., G. W. PAGE, S. A. LAYMON, AND R. W. STALLCUP. 1991. Distribution, relative abundance, and status of the California Black Rail in western North America. *Condor* 93:952–966.
- EYLER, T. B., R. M. ERWIN, D. B. STOTTS, AND J. S. HATFIELD. 1999. Aspects of hatching success and chick survival in Gull-billed Terns in coastal Virginia. *Waterbirds* 22:54–59.
- FABER, P. M. 1996. Common wetland plants of coastal California. Pickleweed Press, Mill Valley, CA.
- FABER, P. M. 2000. *Spartina densiflora*. Pp. 301–302 in C. C. Bossard, J. M. Randall, and M. C. Hoshovsky (editors). Invasive plants of California's wildlands. University of California Press, Berkeley, CA.
- FAHRIG, L. 1997. Relative effects of habitat loss and fragmentation on population extinction. *Journal of Wildlife Management* 61:603–610.
- FAIRBAIRN, S. E., AND J. J. DINSMORE. 2001. Local and landscape-level influences on wetland bird communities of the prairie pothole region of Iowa, USA. *Wetlands* 21:41–47.
- FAIRBANKS, R. G. 1989. A 17,000-year glacio-eustatic sea level record; influence of glacial melting rates on the Younger Dryas event and deep-ocean circulation. *Nature* 342:637–642.
- FAIRBANKS, R. G. 1992. Holocene marine coastal evolution of the United States. Pp. 9–20 in Special Publication No. 48. Society of Economic and Petroleum Mineralogy, Quaternary coasts of the United States: marine and lacustrine systems, Tulsa, OK.
- FAIREY, R., K. TABERSKI, S. LAMERDIN, E. JOHNSON, R. P. CLARK, J. W. DOWNING, J. NEWMAN, AND M. PETREAS. 1997. Organochlorines and other environmental contaminants in muscle tissue of sportfish collected from San Francisco Bay. *Marine Pollution Bulletin* 34:1058–1071.
- FEINBERG, J. A. 2003. Nest predation and ecology of terrapins, *Malaclemys terrapin terrapin*, at the Jamaica Bay Wildlife Refuge. Pp. 5–12 in C. W. Swarth, W. M. Rosenberg, and E. Kiviat (editors). Conservation and ecology of turtles of the mid-Atlantic region; a symposium. Bibliomania, Salt Lake City, UT.
- FELL, P. E., S. P. WEISSBACH, D. A. JONES, M. A. FALLON, J. A. ZEPPIERI, E. K. FAISON, K. A. LENNON, K. J. NEWBERRY, AND L. K. REDDINGTON. 1998. Does invasion of oligohaline tidal marshes by reed grass, *Phragmites australis* (Cav.) Trin. Ex Steud. Affect the availability of prey resources for the mummichog, *Fundulus heteroclitus* L. *Journal of Experimental Marine Biology and Ecology* 222:59–77.
- FENGER, J., E. BUCH, AND P. R. JAKOBSEN. 2001. Technical and political aspects of sea level rise in Denmark. *World Resource Review* 13:540–554.
- FENSOME, R. A., AND G. L. WILLIAMS (EDITORS). 2001. The last billion years: a geological history of the Maritime Provinces of Canada. Atlantic Geoscience Society, Halifax, NS, Canada.
- FERRIGNO, F., AND D. JOBBINS. 1968. Open marsh water management. *Proceedings of the New Jersey Mosquito Extermination Association* 55:104–115.
- FIALA, K. L., AND J. D. CONGDON. 1983. Energetic consequences of sexual size dimorphism in nestling Red-winged Blackbirds. *Ecology* 64:642–647.
- FIELD, D. W., A. J. REYER, P. V. GENOVESE, AND B. D. SHEARER. 1991. Coastal wetlands of the United States. National Oceanographic and Atmospheric Administration and USDI Fish and Wildlife Service, Washington, DC.
- FINDLEY, J. S. 1955. Speciation of the wandering shrew. *University of Kansas Publications, Museum of Natural History* 9:1–68.
- FINKELSTEIN, K., AND C. S. HARDAWAY. 1988. Late Holocene sedimentation and erosion of estuarine fringing marshes, York River, Virginia (USA). *Journal of Coastal Research* 4:447–456.
- FINLAYSON, C. M., G. E. HOLLIS, AND T. J. DAVIS (EDITORS). 1992. Managing Mediterranean wetlands and their birds. Special Publication No. 20, International Waterfowl and Wetlands Research Bureau, Slimbridge, UK.
- FISLER, G. F. 1962. Ingestion of sea water by *Peromyscus maniculatus*. *Journal of Mammalogy* 43:416–417.
- FISLER, G. F. 1963. Effects of salt water on food and water consumption and weight of harvest mice. *Ecology* 44:604–606.
- FISLER, G. F. 1965. Adaptation and speciation in harvest mice of the marshes of San Francisco Bay. *University of California Publications in Zoology* 77:1–108.
- FLATHER, C. H., AND J. R. SAUER. 1996. Using landscape ecology to test hypotheses about large-scale abundance patterns in migratory birds. *Ecology* 77:28–35.
- FLEISCHER, R. C., G. FULLER, AND D. B. LEDIG. 1995. Genetic structure of endangered Clapper Rail (*Rallus longirostris*) populations in southern California. *Conservation Biology* 9:1234–1243.
- FLEISCHER, R. C., AND C. E. MCINTOSH. 2001. Molecular systematics and biogeography of the Hawaiian avifauna. *Studies in Avian Biology* 22:51–60.
- FLETCHER, C. H., H. J. HARLEY, AND J. C. KRAFT. 1990. Holocene evolution of an estuarine coast and tidal wetlands. *Geological Society of America Bulletin* 102:283–297.
- FLETCHER, C. H., III, J. E. VAN PELT, G. S. BRUSH, AND J. SHERMAN. 1993. Tidal wetland record of Holocene sea-level movements and climate history. *Palaeogeography Palaeoclimatology Palaeoecology* 102:177–213.

- FLORES, C., AND D. BOUNDS. 2001. First year response of prescribed fire on wetland vegetation in Dorchester County, MD. *Wetland Journal* 13: 15–23.
- FOERSTER, K. S., AND J. E. TAKEKAWA. 1991. San Francisco Bay National Wildlife Refuge predator management plan and final environmental assessment. USDI Fish and Wildlife Service, San Francisco Bay National Wildlife Refuge, Newark, CA.
- FOERSTER, K. S., J. E. TAKEKAWA, AND J. D. ALBERTSON. 1990. Breeding density, nesting habitat and predators of the California Clapper Rail. USDI Fish and Wildlife Service, San Francisco Bay National Wildlife Refuge, Newark, CA.
- FOIN, T. C., AND J. L. BRENCHLEY-JACKSON. 1991. Simulation model evaluation of potential recovery of endangered Light-footed Clapper Rail populations. *Biological Conservation* 58:123–148.
- FOOTE, L. 1996. Coastal wetlands—questions of management. *International Waterfowl Symposium* 7: 149–158.
- FORMAN, R. T. T. 1995. Land mosaics, the ecology of landscapes and regions. Cambridge University Press, Cambridge, UK.
- FORSTMEIER, W., B. LEISLER, AND B. KEMPENAERS. 2001. Bill morphology reflects female independence from male parental help. *Proceedings of the Royal Society of London, Series B: Biological Sciences* 268:1583–1588.
- FORSTNER, M. R. J., G. PARKS, L. MILLER, B. HERBERT, K. HALBROOK, AND B. K. MEALEY. 2000. Genetic variability and geographic structure of *Malaclemys terrapin* populations in Texas and south Florida. Final report to the Species at Risk program of the U.S. Geological Survey, Reston, VA.
- FOSTER, M. L. 1977a. A breeding season study of the Salt Marsh Yellowthroat (*Geothlypis trichas sinuosa*) of the San Francisco Bay area, California. M.A. thesis, San Jose State University, San Jose, CA.
- FOSTER, M. L. 1977b. Status of the Salt Marsh Yellowthroat (*Geothlypis trichas sinuosa*) in the San Francisco Bay area, California 1975–1976. California Department of Fish and Game, Sacramento, CA.
- FOSTER, M. S. 1974. A model to explain molt-breeding overlap and clutch size in some tropical birds. *Evolution* 28:182–190.
- FOX, G. A. 1995. Tinkering with the tinkerer: pollution versus evolution. *Environmental Health Perspectives* 103:93–100.
- FRANKHAM, R., J. D. BALLOU, AND D. A. BRISCOE. 2002. Introduction to conservation genetics. Cambridge University Press, Cambridge, UK.
- FRASER, D. J., AND L. BERNATCHEZ. 2001. Adaptive evolutionary conservation: towards a unified concept for defining conservation units. *Molecular Ecology* 10:2741–2752.
- FREDERICK, P. 1987. Chronic tidally-induced nest failure in a colony of White Ibises. *Condor* 89:413–419.
- FRENKEL, R. E. 1987. Introduction and spread of cordgrass (*Spartina*) into the Pacific Northwest. *Northwest Environmental Journal* 3:152–154.
- FREY, R. W., AND P. B. BASAN. 1985. Coastal salt marshes. In R. A. Davis (editor) *Coastal sedimentary environments*. Springer-Verlag, New York, NY.
- FRIEND, M. 1987. Avian cholera. Pp. 69–82 in M. Friend (editor). *Field guide to wildlife diseases*. USDI Fish and Wildlife Service, Washington DC.
- FRIEND, M. 1992. Environmental influences on major waterfowl diseases. *Transactions of the North American Wildlife and Natural Resources Conference* 57:517–525.
- FROST, D. R. 2004. Amphibian species of the World: an online reference. Version 3.0. American Museum of Natural History, New York, NY. <<http://research.amnh.org/herpetology/amphibia/index.html>> (17 January 2006).
- FRY, A. J., AND R. M. ZINK. 1998. Geographic analysis of nucleotide diversity and Song Sparrow (Aves: Emberizidae) population history. *Molecular Ecology* 7:1303–1313.
- FUNDERBURG, J. B., JR., AND T. L. QUAY. 1983. Distributional evolution of the Seaside Sparrow. Pp. 19–27 in T. L. Quay, J. B. Funderburg, Jr., D. S. Lee, E. Potter, and C. S. Robbins (editors). *The Seaside Sparrow, its biology and management*. North Carolina Biological Survey, Raleigh, NC.
- FUNK, D. J., AND K. E. OMLAND. 2003. Species-level paraphyly and polyphyly: frequency, causes, and consequences with insights from animal mitochondrial DNA. *Annual Review of Ecology and Systematics* 34:397–423.
- FURBISH, C., AND M. ALBANO. 1994. Selective herbivory and plant community structure in a mid-Atlantic salt marsh. *Ecology* 75:1015–1022.
- GABREY, S. W., AND A. D. AFTON. 2000. Effects of winter marsh burning on abundance and nesting activity of Louisiana Seaside Sparrows in the Gulf Coast Chenier Plain. *Wilson Bulletin* 112:365–372.
- GABREY, S. W., AND A. D. AFTON. 2001. Plant community composition and biomass in Gulf Coast Chenier Plain marshes: responses to winter burning and structural marsh management. *Environmental Management* 27:281–293.
- GABREY, S. W., AND A. D. AFTON. 2004. Composition of breeding bird communities in Gulf Coast Chenier Plain marshes: effects of winter burning. *Southeastern Naturalist* 3:173–185.
- GABREY, S. W., A. D. AFTON, AND B. C. WILSON. 1999. Effects of winter burning and structural marsh management on vegetation and winter bird abundance in the Gulf Coast Chenier Plain, USA. *Wetlands* 19:594–606.
- GABREY, S. W., A. D. AFTON, AND B. C. WILSON. 2001. Effects of structural marsh management and winter burning on plant and bird communities during summer in the Gulf Coast Chenier Plain. *Wildlife Society Bulletin* 29:218–231.
- GABREY, S. W., B. C. WILSON, AND A. D. AFTON. 2002. Success of artificial bird nests in burned Gulf Coast Chenier Plain marshes. *Southwestern Naturalist* 47:532–538.
- GAFFNEY, E. S., AND P. A. MEYLAN. 1988. A phylogeny of turtles. Pp. 157–219 in M. J. Benton (editor). *The phylogeny and classification of the tetrapods*, Vol. 1. Clarendon Press, Oxford, UK.
- GAHAGAN AND BRYANT ASSOCIATES, BECHTEL CORPORATION, ENTRIX, AND PHILIP WILLIAM AND ASSOCIATES, LTD. 1994. A review of the physical and biological performance of tidal marshes

- constructed with dredged materials in San Francisco Bay, California. Report to the U.S. Army Corps of Engineers, San Francisco District, San Francisco, CA.
- GAINES, K. F., J. C. CUMBEE, JR., AND W. L. STEPHENS, JR. 2003. Nest characteristics of the Clapper Rail from coastal Georgia. *Journal of Field Ornithology* 74: 152–156.
- GALBRAITH, H., R. JONES, R. PARK, J. CLOUGH, S. HERROD-JULIUS, B. HARRINGTON, AND G. PAGE. 2002. Global climate change and sea level rise: potential losses of intertidal habitat for shorebirds. *Waterbirds* 25: 173–183.
- GANONG, W. F. 1903. The vegetation of the Bay of Fundy salt and diked marshes: an ecological study. *Botanical Gazette* 36:161–186.
- GARDNER, W. S., D. R. KENDALL, R. R. ODOM, H. L. WINDOM, AND J. A. STEPHENS. 1978. The distribution of methyl mercury in a contaminated salt marsh ecosystem. *Environmental Pollution* 15:243–251.
- GAUL, R. W., JR. 1996. An investigation of the genetic and ecological status of the Carolina salt marsh snake, *Nerodia sipedon williamengelsi*. M.S. thesis, East Carolina University, Greenville, NC.
- GAUVIN, J. M. 1979. Etude de la vegetation des marais sales du Parc National de Kouchibouguac, N.-B. M.Sc. thesis, Universite de Moncton, Moncton, NB, Canada.
- GAVIN, T. A., R. A. HOWARD, AND B. MAY. 1991. Allozyme variation among breeding populations of Red-winged Blackbirds: the California conundrum. *Auk* 108:602–611.
- GEISSEL, W., H. SHELLHAMMER, AND H. T. HARVEY. 1988. The ecology of the salt-marsh harvest mouse (*Reithrodontomys raviventris*) in a diked salt marsh. *Journal of Mammalogy* 69:696–703.
- GERBER, L. R., D. P. DEMASTER, AND P. M. KAREIVA. 1999. Gray whales and the value of monitoring data in implementing the U.S. Endangered Species Act. *Conservation Biology* 13:1215–1219.
- GETZ, L. L. 1966. Salt tolerance of salt marsh meadow voles. *Journal of Mammalogy* 47:201–207.
- GIBBONS, J. W., J. E. LOVICH, A. D. TUCKER, N. N. FITZSIMMONS, AND J. L. GREENE. 2001. Demography and ecological factors affecting conservation and management of the diamondback terrapin (*Malaclemys terrapin*). *Chelonian Conservation and Biology* 4:66–74.
- GIBBS, J. P., AND S. M. MELVIN. 1993. Call-response surveys for monitoring breeding waterbirds. *Journal of Wildlife Management* 7:27–34.
- GILBERT, C. 1981. Le comportement social du Pinson à queue Aigüe. M.S. thesis, L'Université Laval, Laval, Quebec, ON, Canada.
- GILL, R. E., JR. 1973. The breeding birds of the south San Francisco Bay estuary. M.A. thesis, San Jose State University, San Jose, CA.
- GILLES-BAILLEEN, M. 1970. Urea and osmoregulation in the diamondback terrapin *Malaclemys centrata centrata* (Latreille). *Journal of Experimental Biology* 52:691–697.
- GILLES-BAILLEEN, M. 1973. Hibernation and osmoregulation in the diamondback terrapin *Malaclemys centrata centrata* (Latreille). *Journal of Experimental Biology* 52:45–51.
- GILMOUR, C. C., G. S. RIEDEL, M. C. EDERINGTON, J. T. BELL, J. M. BENOIT, G. A. GILL, AND M. C. STORDAL. 1998. Methylmercury concentrations and production rates across a trophic gradient in the northern Everglades. *Biogeochemistry* 40: 327–345.
- GIORGIO, F., B. HEWITSON, J. CHRISTIANSEN, M. HULME, H. VON STORCH, P. WHETTON, R. JONES, L. MEARNS, AND C. FU. 2001. Regional climate information—evaluation and projections. Pp. 583–638 in J. T. Houghton, Y. Ding, D. J. Griggs, M. Noguer, P. J. van der Linden, X. Dai, K. Maskell, and C. A. Johnson (editors). *The scientific basis. Contributions of Working Group I to the third assessment report of the Intergovernmental Panel on Climate Change*. Cambridge University Press, Cambridge, UK, and New York, NY.
- GIVENS, L. S. 1962. Use of fire on southeastern wildlife refuges. *Proceedings of the Tall Timbers Fire Ecology Conference* 1:121–126.
- GLOOSCHENKO, V., I. P. MARTINI, AND K. CLARKE-WHISTLER. 1988. Saltmarshes of Canada. Pp. 348–376 in National Wetlands Working Group. Wetlands of Canada. Sustainable Development Branch, Environment Canada, and Polyscience Publications Inc., Ottawa, ON, Canada.
- GLUE, D. E. 1971. Salt marsh reclamation stages and their associated bird life. *Bird Study* 18:187–198.
- GOALS PROJECT. 1999. Baylands ecosystem habitat goals. A report of habitat recommendations prepared by the San Francisco Bay Area Wetlands Ecosystems Goals Project. Joint publication of the U.S. Environmental Protection Agency, San Francisco, California, and San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- GOALS PROJECT. 2000. Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife. Prepared by the San Francisco Bay Area Wetlands Ecosystem Goals Project. U.S. Environmental Protection Agency, San Francisco, California, and San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- GODDARD, L. B., A. E. ROTH, W. K. REISEN, AND T. W. SCOTT. 2002. Vector competence of California mosquitoes for West Nile virus. *Emerging Infectious Diseases* 8:1385–1391.
- GOLDSMITH, B. 1991. Monitoring for conservation and ecology. Chapman and Hall, London, UK.
- GOLDSTEIN, D. L., AND S. D. BRADSHAW. 1998. Regulation of water and sodium balance in the field by Australian honeyeaters (Aves: Meliphagidae). *Physiological Zoology* 71:214–225.
- GOLDSTEIN, D. L., AND E. J. BRAUN. 1986. Proportions of mammalian-type and reptilian-type nephrons in the kidneys of two passerine birds. *Journal of Morphology* 187:173–180.
- GOLDSTEIN, D. L., AND E. J. BRAUN. 1989. Structure and concentrating ability in the avian kidney. *American Journal of Physiology* 256:R501–R509.
- GOLDSTEIN, D. L., AND E. SKADHAUGE. 1999. Renal and extra-renal osmoregulation. Pp. 265–297 in G. C. Whittow (editor). *Sturkie's avian physiology*. Academic Press, San Diego, CA.
- GOLDSTEIN, D. L., J. B. WILLIAMS, AND E. J. BRAUN. 1990. Osmoregulation in the field by Salt-marsh

- Savannah Sparrows *Passerculus sandwichensis beldingi*. *Physiological Zoology* 63:669–682.
- GOMAN, M. 1996. A history of Holocene environmental change in the San Francisco estuary. Ph.D. dissertation, University of California, Berkeley, CA.
- GOMAN, M. 2001. Statistical analysis of modern seed assemblages from the San Francisco Bay: applications for the reconstruction of paleo-salinity and paleo-tidal inundation. *Journal of Paleolimnology* 24:393–409.
- GOMAN, M., AND E. WELLS. 2000. Trends in river flow affecting the northeastern reach of the San Francisco Bay estuary over the past 7,000 years. *Quaternary Research* 54:206–217.
- GORDON, D. C., JR., AND P. J. CRANFORD. 1994. Export of organic matter from macrotidal saltmarshes in the upper Bay of Fundy, Canada. Pp. 257–264 in W. J. Mitsch (editor). *Global wetlands: Old World and New*. Elsevier, New York, NY.
- GORDON, D. C., JR., P. J. CRANFORD, AND C. DESPLANQUE. 1985. Observations on the ecological importance of saltmarshes in the Cumberland Basin, a macrotidal estuary in the Bay of Fundy (Canada). *Estuarine Coastal and Shelf Science* 20:205–228.
- GORDON, D. C., JR., AND C. DESPLANQUE. 1983. Dynamics and environmental effects of ice in the Cumberland Basin of the Bay of Fundy (Canada). *Canadian Journal of Fisheries and Aquatic Sciences* 40:1331–1342.
- GORDON, D. H., B. T. GRAY, AND R. M. KAMINSKI. 1998. Dabbling duck-habitat associations during winter in coastal South Carolina. *Journal of Wildlife Management* 62:569–580.
- GORDON, D. H., B. T. GRAY, R. D. PERRY, M. B. PREVOST, T. H. STRANGE, AND R. K. WILLIAMS. 1989. South Atlantic coastal wetlands. Pp. 57–92 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.
- GOSS-CUSTARD, J. D., AND M. E. MOSER. 1988. Rates of change in the numbers of Dunlin, *Calidris alpina*, wintering in British estuaries in relation to the spread of *Spartina anglica*. *Journal of Applied Ecology* 25:95–109.
- GRAY, A. J., AND R. J. MOGG. 2001. Climate impacts on pioneer saltmarsh plants. *Climate Research* 18: 105–112.
- GREEN, M. M. 1932. An unrecognized shrew from New Jersey. *University of California Publications in Zoology* 38:387–389.
- GREEN, M. T., P. E. LOWTHER, S. L. JONES, S. K. DAVIS, AND B. C. DALE. 2002. Baird's Sparrow (*Ammodramus bairdii*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 638. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- GREEN, R. E., AND G. J. M. HIROWS. 1991. The relevance of population studies to the conservation of threatened birds. Pp. 594–633 in C. M. Perrins, J.-D. Lebreton, and G. J. M. Hirons (editors). *Bird population studies: relevance to conservation and management*. Oxford University Press, London, UK.
- GREENBERG, C. H., S. H. CROWNOVER, AND D. R. GORDON. 1997. Roadside soil: a corridor for invasion of xeric scrub by nonindigenous plants. *Natural Areas Journal* 17:99–100.
- GREENBERG, R. 1981. Dissimilar bill shapes in New-World tropical vs. temperate forest foliage glean-ing birds. *Oecologia* 49:143–147.
- GREENBERG, R. 2003. On the use of nest departure calls for surveying Swamp Sparrows. *Journal of Field Ornithology* 74:12–16.
- 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.
- GREENBERG, R., AND S. DROEGE. 1990. Adapations to tidal marshes in breeding populations of the Swamp Sparrow. *Condor* 92:393–404.
- GREENBERG, R., P. P. MARRA, AND M. J. WOOLLER. In press. Stable isotope (C, N, H) analyses locate the unknown winter range of the coastal plain Swamp Sparrow (*Melospiza georgiana nigrescens*). *Auk*.
- GREENHAUGH, M. 1971. The breeding bird community of Lancashire salt marshes. *Bird Study* 18: 199–212.
- GREENLAW, J. S. 1983. Microgeographic distribution of breeding Seaside Sparrows on New York salt marshes. Pp. 99–114 in T. L. Quay, J. B. Funderburg, D. S. Lee, E. F. Potter, and C. S. Robbins (editors). *The Seaside Sparrow: its biology and management*. North Carolina Biological Survey, Raleigh, NC.
- GREENLAW, J. S. 1989. On mating systems in passerine birds of American marshlands. Pp. 2597–2612 in H. Ouellet (editor). *ACTA XIX Congressus Internationalis Ornithologici*, Vol. II. University of Ottawa Press, Ottawa, ON, Canada.
- GREENLAW, J. S. 1993. Behavioral and morphological diversification in Sharp-tailed Sparrows (*Ammodramus caudacutus*) of the Atlantic Coast. *Auk* 110:286–303.
- GREENLAW, J. S., AND W. POST. 1985. Evolution of monogamy in Seaside Sparrows, *Ammodramus maritimus*: tests of hypotheses. *Animal Behaviour* 33:373–383.
- GREENLAW, J. S., AND J. D. RISING. 1994. Sharp-tailed Sparrow (*Ammodramus caudacutus*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 112. Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- GRENIER, J. L. 2004. Ecology, behavior, and trophic adaptations of the salt marsh Song Sparrow *Melospiza melodia samuelis*: the importance of the tidal influence gradient. Ph.D. dissertation, University of California, Berkeley, CA.
- GRENIER, J. L., AND R. GREENBERG. 2005. A biogeographic pattern in sparrow bill morphology: parallel adap-tation to tidal marshes. *Evolution* 59:1588–1595.
- GRIFFITH, B., J. M. SCOTT, J. CARPENTER, AND C. REED. 1989. Translocation as a species conservation tool: status and strategy. *Science* 245:477–480.
- GRINNELL, J. 1909. Three new Song Sparrows from California. *University of California Publications in Zoology* 5:265–269.
- GRINNELL, J. 1913. Note on the palustrine faunas of west-central California. *University of California Publications in Zoology* 10:191–194.

- GRINNELL, J. 1933. Review of the recent mammal fauna of California. University of California Publications in Zoology 40:71-234.
- GRINNELL, J., AND A. H. MILLER. 1944. The distribution of the birds of California. Pacific Coast Avifauna 27. Cooper Ornithological Society, Berkeley, CA.
- GROSHOLZ, E. 2002. Ecological and evolutionary consequences of coastal invasions. Trends in Ecology and Evolution 17:22-27.
- GROSJEAN, M., J. F. N. VAN LEEUWEN, W. O. VAN DER KNAAP, M. A. GEYH, B. AMMANN, W. TANNER, B. MESSERLI, L. A. NUNEZ, B. L. VALERO-GARCES, AND H. VEIT. 2001. A 22,000 ^{14}C year B.P. sediment and pollen record of climate change from Laguna Miscanti 238S, Northern Chile. Global and Planetary Change 28:35-51.
- GROSSINGER, R., J. ALEXANDER, A. N. COHEN, AND J. N. COLLINS. 1998. Introduced tidal marsh plants in the San Francisco estuary: regional distribution and priorities for control. San Francisco Estuary Institute, Richmond, CA.
- GROSSINGER, R., J. ALEXANDER, A. N. COHEN, AND J. N. COLLINS. 1998. Introduced tidal marsh plants in the San Francisco Estuary. San Francisco Estuary Institute, Richmond, CA.
- GUSTAFSON, E. J., AND G. R. PARKER. 1994. Using an index of habitat patch proximity for landscape design. Landscape and Urban Planning 29:117-130.
- GUZY, M. J., AND G. RITCHISON. 1999. Common Yellowthroat (*Geothlypis trichas*). In A. Poole, and F. Gill (editors). The birds of North America, No. 448. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- HACKNEY, C. T., AND A. A. DE LA CRUZ. 1981. Effects of fire on brackish marsh communities: management implications. Wetlands 1:75-86.
- HAGAN, J. M., T. L. LLOYD-EVANS, J. L. ATWOOD, AND D. S. WOOD. 1992. Long-term changes in migratory landbirds in the north-eastern United States: evidence from migration capture data. Pp. 115-130 in J. M. Hagan, and D. W. Johnson (editors). Ecology and conservation of neotropical migrant landbirds. Smithsonian Institution Press, Washington, DC.
- HAIG, S. M., D. W. MEHLMAN, AND L. W. ORING. 1998. Avian movements and wetland connectivity in landscape conservation. Conservation Biology 12:749-758.
- HALL, E. R. 1981. The mammals of North America. 2nd. ed. John Wiley and Sons, Inc., New York, NY.
- HALL, E. R., AND K. R. KELSON. 1959. The mammals of North America. Ronald Press, New York, NY.
- HAMPTON, S., R. G. FORD, H. R. CARTER, C. ABRAHAM, AND D. HUMPLE. 2003. Chronic oiling and seabird mortality from the sunken vessel S.S. Jacob Luckenbach in central California. Marine Ornithology 31:35-41.
- HANSEN, A. J., AND D. L. URBAN. 1992. Avian response to landscape pattern—the role of species life histories. Landscape Ecology 7:163-180.
- HANSEN, G. L. 1979. Territorial and foraging behaviour of the Eastern Willet *Catoptrophorus semipalmatus semipalmatus* (Gmelin). M.S. thesis, Acadia University, Wolfville, NS, Canada.
- HANSON, A. 2004. Breeding bird use of saltmarsh habitat in the Maritime Provinces. Technical Report Series No. 414. Canadian Wildlife Service-Atlantic Region. Sackville, NB, Canada.
- HANSON, A. R., D. BERUBE, D. L. FORBES, S. O'CARROLL, J. OLLERHEAD, AND L. OLSEN. 2005. Impacts of sea-level rise and residential development on salt marsh area in southeastern New Brunswick 1944-2001. Proceedings 12th Canadian Coastal Conference, Dartmouth, NS, Canada.
- HANSON, A., AND L. CALKINS. 1996. Wetlands of the Maritime provinces: revised documentation for the wetlands inventory. Technical Report Series No. 267. Canadian Wildlife Service-Atlantic Region, Sackville, NB, Canada.
- HARRIS, V. R. 1953. Ecological relationships of meadow voles and rice rats in tidal marshes. Journal of Mammalogy 34:479-487.
- HARRIS, V. T., AND F. WEBERT. 1962. Nutria feeding activity and its effect on marsh vegetation in southwestern Louisiana. Special Scientific Report 64, USDI Fish and Wildlife Service, Washington, DC.
- HARRISON, S., AND E. BRUNA. 1999. Habitat fragmentation and large-scale conservation: what do we know for sure? Ecography 22:225-232.
- HART, K. M. 1999. Declines in diamondbacks: terrapin population modeling and implications for management. M.E.M. thesis, Duke University, NC.
- HARTWIG, A. 1995. Current aspects in metal genotoxicity. BioMetals 8:3-11.
- HARVEY, T. E. 1988. Breeding biology of the California Clapper Rail in south San Francisco Bay. Transactions of the Western Section of the Wildlife Society 24:98-104.
- HARVEY, T. E., K. J. MILLER, R. L. HOTHEN, M. J. RAUZON, G. W. PAGE, AND R. A. KECK. 1992. Status and trends report on wildlife of the San Francisco Estuary. USDI Fish and Wildlife Service report for the San Francisco Estuary Project. U.S. Environmental Protection Agency, San Francisco, CA and San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- HATVANY, M. G. 2001. "Wedded to the marshes": saltmarshes and socio-economic differentiation in early Prince Edward Island. Acadiensis 30:40-55.
- HAY, O. P. 1908. The fossil turtles of North America. Carnegie Institution of Washington Publication 75:1-568.
- HAYDEN, B., R. DUESER, J. T. CALLAHAN, AND H. H. SHUGART. 1991. Long-term research at the Virginia Coast Reserve. BioScience 41:310-318.
- HAYS, J. D., IMBRIE, J., AND N. J. SHACKLETON. 1977. Variations in the Earth's orbit: pacemaker of the ice ages? Science 198:529-530.
- HAYS, W. S. T., AND W. Z. LIDICKER, JR. 2000. Winter aggregations, Dehnel effect, and habitat relations in the Suisun shrew *Sorex ornatus sinuosus*. Acta Theriologica 45:433-442.
- HAZELDEN, J., AND L. A. BOORMAN. 2001. Soils and 'managed retreat' in south east England. Soil Use and Management 17:150-154.
- HEATWOLE, H., AND J. TAYLOR. 1987. Ecology of reptiles. Beatty and Sons Pty. Ltd., Sidney, New South Wales, Australia

- HEINZ, G. H. 1996. Selenium in birds. Pp. 447–458 in W. N. Beyer, G. H. Heinz, and A. W. Redmon-Norwood (editors). Environmental contaminants in wildlife: interpreting tissue concentrations. CRC Lewis Publishers, New York, NY.
- HEINZ, G. H., AND D. J. HOFFMAN. 1998. Methylmercury chloride and selenomethionine interactions on health and reproduction in Mallards. *Environmental Toxicology and Chemistry* 17:139–145.
- HELLMAYER, C. E. 1932. The catalogue of birds of the Americas. Part IX. Publication No. 381, Field Museum of Natural History, Chicago, IL.
- HELLMAYER, C. E. 1938. The catalogue of birds of the Americas. Part IX. Publication No. 430, Field Museum of Natural History, Chicago, IL.
- HELLMAYER, C. E., AND B. CONOVER. 1942. The catalogue of birds of the Americas. Part I. Publication No 514, Field Museum of Natural History, Chicago, IL.
- HEPPELL, S. S. 1998. Application of life-history theory and population model analysis to turtle conservation. *Copeia* 1998:367–375.
- HEPPELL, S. S., H. CASWELL, AND L. B. CROWDER. 2000. Life histories and elasticity patterns: perturbation analysis for species with minimal demographic data. *Ecology* 81:654–665.
- HEPPELL, S. S., AND L. B. CROWDER. 1998. Prognostic evaluation of enhancement efforts using population models and life history analysis. *Bulletin of Marine Lacience* 62:495–507.
- HEPPELL, S. S., L. B. CROWDER, AND T. R. MENZEL. 1999. Life table analysis of long-lived marine species with implications for conservation and management. *American Fisheries Society Symposium* 23. Bethesda, MD.
- HERKERT, J. R., P. D. VICKERY, AND D. E. KROODSMA. 2002. Henslow's Sparrow (*Ammmodramus henslowii*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 672. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- HIGGINS, P. J. (EDITOR). 1999. *Handbook of Australian, New Zealand, and Antarctic birds*. Vol. 4, parrots to dollar birds. Oxford University Press, Oxford, UK.
- HIGGINS, P. J., J. M. PETER, AND W. K. STEELE (EDITORS). 2001. *Handbook of Australian, New Zealand, and Antarctic birds*. Vol. 5. tyrant flycatchers to chats. Oxford University Press, Oxford, UK.
- HILDEBRAND, S. F. 1929. Review of experiments on artificial culture of diamond-back terrapin. *Bulletin of the U.S. Bureau of Fisheries* 45:25–70.
- HILDEBRAND, S. F. 1932. Growth of diamondback terrapins, size attained, sex ratio, and longevity. *Zoologica* 9:551–563.
- HILDEBRAND, S. F., AND C. HATSEL. 1926. Diamond-back terrapin culture at Beaufort, N.C. U.S. Bureau of Fisheries, Economic Circular 60:1–20.
- HILDEBRAND, S. F., AND H. F. PRYTHONCH. 1947. Diamondback terrapin culture. USDI Fish and Wildlife Service Leaflet 216:1–5.
- HILL, C. E., AND W. POST. 2005. Extra-pair paternity in Seaside Sparrows. *Journal of Field Ornithology* 76:119–126.
- HOBSON, K., P. PERRINE, E. B. ROBERTS, M. L. FOSTER, AND P. WOODIN. 1986. A breeding season survey of Salt Marsh Yellowthroats (*Geothlypis trichas sinuosa*) in the San Francisco Bay Region. Report of the San Francisco Bay Bird Observatory to USDI Fish and Wildlife Service, Sacramento, CA.
- HOCHACHKA, W. M., J. N. M. SMITH, AND P. ARCESE. 1989. Song Sparrow. Pp. 135–152 in I. Newton (editor). Lifetime reproduction in birds. Academic Press, New York, NY.
- HOCKEY, P. A. R., AND J. K. TURPIE. 1999. Estuarine birds in South Africa. Pp. 235–268 in B. Allanson, and D. Baird (editors). *Estuaries of South Africa*. Cambridge University Press, Cambridge, UK.
- HODGMAN, T. P., W. G. SHRIVER, AND P. D. VICKERY. 2002. Redefining range overlap between the Sharp-tailed Sparrows of coastal New England. *Wilson Bulletin* 114:38–43.
- HOFFMAN, D. J., C. P. RICE, AND T. J. KUBIAK. 1996. PCBs and dioxins in birds. Pp. 165–207 in W. N. Beyer, G. H. Heinz, and A. W. Redmon-Norwood (editors). Environmental contaminants in wildlife: interpreting tissue concentrations. CRC Lewis Publishers, New York, NY.
- HOFFMANN, A. A., AND P. A. PARSONS. 1991. Evolutionary genetics and environmental stress. Oxford University Press, Oxford, UK.
- HOFFPAUER, C. M. 1961. Methods of measuring and determining the effects of marsh fires. M.S. thesis, Louisiana State University, Baton Rouge, LA.
- HOFFPAUER, C. M. 1968. Burning for coastal marsh management. Pp. 134–139 in J. Newsom (editor). *Proceedings of the marsh and estuary management symposium*. Louisiana State University, Baton Rouge, LA.
- HOLCOMB, L. C. 1966. Red-winged Blackbird nestling development. *Wilson Bulletin* 78:283–288.
- HOLCOMB, L. C., AND G. TWIEST. 1970. Growth rates and sex ratios of Red-winged Blackbird nestlings. *Wilson Bulletin* 82:294–303.
- HOLLAND, R. F., AND S. K. JAIN. 1977. Vernal pools. Pp. 515–533 in M. G. Barbour, and J. Major (editors). *Terrestrial vegetation of California*. John Wiley and Sons, New York, NY.
- HOLLAND, R. F., AND S. K. JAIN. 1984. Spatial and temporal variation in plant species diversity of vernal pools. Pp. 198–209 in S. Jain, and P. Moyle (editors). *Vernal pools and intermittent streams*. Publication number 28, University of California Institute of Ecology, Davis, CA.
- HOLT, E. R., AND R. BUCHSBAUM. 2000. Bird use of *Phragmites australis* in coastal marshes of northern Massachusetts. *Proceedings of the First National Conference on Marine Bioinvasions*. Massachusetts Institute of Technology, Cambridge, MA.
- HOOD, C. S., L. W. ROBBINS, R. J. BAKER, AND H. S. SHELLHAMMER. 1984. Chromosomal studies and evolutionary relationships of an endangered species, *Reithrodontomys raviventris*. *Journal of Mammalogy* 65:655–667.
- HOOD, W. G. 2004. Indirect environmental effects of dikes on estuarine tidal channels: thinking outside of the dike for habitat restoration and monitoring. *Estuaries* 27:273–282.
- HOOPER, E. T. 1952. A systematic revision of the harvest mice (genus *Reithrodontomys*) of Latin America. *Miscellaneous Publications of the Museum of Zoology*, University of Michigan 77:1–255.

- HOOPER, S., C. PETTIGREW, AND G. SAYLER. 1991. Ecological fate, effects, and prospects for the elimination of environmental polychlorinated biphenyls (PCBs). *Environmental Toxicology and Chemistry* 9:655–667.
- HORWITZ, E. L. 1978. Our nation's wetlands. Council on Environmental Quality, Washington, DC.
- HOSMER, D. W., AND S. LEMESHOW. 1989. Applied logistic regression. John Wiley and Sons, New York, NY.
- HOSMER, D. W., AND S. LEMESHOW. 2000. Applied logistic regression, 2nd edition. John Wiley and Sons, Inc, New York, NY.
- HOTKER, H. 1992. Reclaimed Norstrand Bay—consequences for wetland birds and management. *Netherlands Journal of Sea Research* 20:257–260.
- HOWE, M. A. 1982. Social organization in a nesting population of Eastern Willets (*Catoptrophorus semipalmatus*). *Auk* 99:88–102.
- HOWE, R. W., G. J. DAVIS, AND V. MOSCA. 1991. The demographic significance of 'sink' populations. *Biological Conservation* 57:239–255.
- HOYLE, M. E., AND J. W. GIBBONS. 2000. Use of a marked population of diamondback terrapins (*Malaclemys terrapin*) to determine the impacts of recreational crab pots. *Chelonian Conservation and Biology* 3: 735–736.
- HRABAR, H., K. DE NAGY, AND M. PERRIN. 2002. The effect of bill structure on seed selection by granivorous birds. *African Zoology* 37:67–80.
- HURD, L. E., G. W. SMEDES, AND T. A. DEAN. 1979. An ecological study of a natural population of diamondback terrapins (*Malaclemys t. terrapin*) in a Delaware saltmarsh. *Estuaries* 2:28–33.
- INGLES, L. G. 1967. The Mammals of the Pacific states. Stanford University Press, Stanford, CA.
- INGRAM, B. L., M. E. CONRAD, AND J. C. INGLE. 1996. Stable isotope record of late Holocene salinity and river discharge in San Francisco Bay, California. *Earth and Planetary Science Letters* 141:237–247.
- INTERAGENCY ECOLOGICAL PROGRAM. 2003. Interagency ecological program environmental monitoring program review and recommendations: Final Report. CALFED Bay-Delta Authority, Sacramento, CA.
- INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE. 2001. Summary for policymakers: climate change 2001. Impacts, adaptation, and vulnerability. Intergovernmental Panel on Climate Change, Geneva, Switzerland.
- ISACCH, J. P., C. S. COSTA, B. RODRÍGUEZ-GALLEGO, L. CONDE, D. ESCAPA, M. GAGLIARDINI, D. S., AND O. O. IRIBARNE. 2006. Distribution of saltmarsh plant communities associated with environmental factors along a latitudinal gradient on the SW Atlantic coast. *Journal of Biogeography* 33: 888–900.
- ISACCH, J. P., S. HOLZ, L. RICCI, AND M. M. MARTINEZ. 2004. Post-fire vegetation change and bird use of a salt marsh in coastal Argentina. *Wetlands* 24: 235–243.
- ISSAR, A. S. 2003. Climate changes during the Holocene and their impact on hydrological systems. *International Hydrology Series*. Cambridge University Press, Cambridge, UK.
- IVERSON, J. B. 1991. Patterns of survivorship in turtles (order Testudines). *Canadian Journal of Zoology* 69:385–391.
- JACKSON, H. H. 1928. A taxonomic review of the American long-tailed shrews. *North American Fauna* 51:1–238.
- JACKSON, J. A. 1983. Adaptive response of nesting Clapper Rails to unusually high water. *Wilson Bulletin* 95:308–309.
- JACOBSEN, H. A., G. L. JACOBSEN, JR., AND J. T. KELLEY. 1987. Distribution and abundance of tidal marshes along the coast of Maine. *Estuaries* 10:126–131.
- JAFFE, B., R. SMITH, AND L. ZINK-TORRESAN. 1998. Sedimentation and bathymetric change in San Pablo Bay 1856–1983. U.S. Geological Survey Open File Report 98-759. <<http://geopubs.wr.usgs.gov/open-file/of98-759>> (6 June 2006).
- JAMES, F. C. 1983. Environmental component of morphological differentiation in birds. *Science* 221: 184–186.
- JAMES-PIRRI, M. J., R. M. ERWIN, D. J. PROSSER, AND J. TAYLOR. 2004. Monitoring salt marsh responses to open marsh water management. *Environmental Restoration* 22:55–56.
- JANES, D. N. 1997. Osmoregulation by Adelie Penguin chicks on the Antarctic peninsula. *Auk* 114:488–495.
- JAQUES, D. 2002. Shorebird status and effects of *Spartina alterniflora* at Willapa National Wildlife Refuge. Report to USDI Fish and Wildlife Service, Willapa National Wildlife Refuge, Cathlamet, WA.
- JASSBY, A. D., AND J. E. CLOERN. 2000. Organic matter sources and rehabilitation of the Sacramento-San Joaquin Delta (California, USA). *Aquatic Conservation* 10:323–352.
- JASSBY, A. D., J. E. CLOERN, AND B. E. COLE. 2002. Annual primary production: patterns and mechanisms of change in a nutrient-rich tidal ecosystem. *Limnology and Oceanography* 47:698–712.
- JASSBY, A. D., W. J. KIMMERER, S. G. MONISMITH, C. ARMOR, J. E. CLOERN, T. M. POWELL, J. R. SCHUBEL, AND T. J. VENDLINSKI. 1995. Isohaline position as a habitat indicator for estuarine populations. *Ecological Applications* 5:272–289.
- JEFFRIES, R. L., AND R. F. ROCKWELL. 2002. Foraging geese, vegetation loss, and soil degradation in an arctic salt marsh. *Applied Vegetation Science* 5:7–16.
- JOHNSON, D. H., AND L. D. IGL. 2001. Area requirements of grassland birds: a regional perspective. *Auk* 118:24–34.
- JOHNSON, O. W. 1974. Relative thickness of the renal medulla in birds. *Journal of Morphology* 142:277–284.
- JOHNSON, O. W., AND J. N. MUGAAS. 1972. Quantitative and organizational features of the avian renal medulla. *Condor* 72:288–292.
- JOHNSON, O. W., AND R. D. OHMART. 1973. Some features of water economy and kidney microstructure in the Large-billed Savannah Sparrow (*Passerculus sandwichensis rostratus*). *Physiological Zoology* 46:276–284.
- JOHNSTON, R. F. 1954. Variation in breeding season and clutch size in Song Sparrows of the Pacific coast. *Condor* 56:268–273.
- JOHNSTON, R. F. 1955. Influence of winter tides on two populations of saltmarsh Song Sparrow. *Condor* 57:308–309.

- JOHNSTON, R. F. 1956a. Population structure in salt marsh Song Sparrows. Part I. Environment and annual cycle. *Condor* 58:24–44.
- JOHNSTON, R. F. 1956b. Population structure in salt marsh Song Sparrows. Part II. Density, age structure, and maintenance. *Condor* 58:254–272.
- JOHNSTON, R. F. 1957. Adaptation of salt marsh mammals to high tides. *Journal of Mammalogy* 38: 529–531.
- JOHNSTON, R. F., AND R. L. RUDD. 1957. Breeding of the salt marsh shrew. *Journal of Mammalogy* 38: 157–163.
- JOSSELYN, M. 1983. The ecology of San Francisco Bay tidal marshes: a community profile. USDI Fish and Wildlife Service, Biological Services Program. FWS/OBS-83/82. Washington, DC.
- JOSSELYN, M., M. MARTINDALE, AND J. DUFFIELD. 1989. Public access and wetlands: Impacts of recreational use. Technical Report 9. Romberg Tiburon Centers, Center for Environmental Studies, San Francisco State University, Tiburon, CA.
- JUNGJUS, H., AND U. HIRSCH. 1979. Herzfrequenzänderungen bei brutvögeln in Galapagos als Folge von Störungen durch Besucher. *Journal für Ornithologie* 120:299–310.
- KAISSER, M., AND E. FRITZELL. 1984. Effects of river recreationists on Green-backed Heron behavior. *Journal of Wildlife Management* 48:561–567.
- KALE, H. W., II. 1965. Ecology and bioenergetics of the Long-billed Marsh Wren, *Telmatodytes palustris griseus* (Brewster) in Georgia salt marshes. Publication Nuttall Ornithological Club. No. 5. Cambridge, MA.
- KANAAR, R., J. H. J. HOEIJMAKERS, AND D. C. VAN GENT. 1998. Molecular mechanisms of DNA double-strand break repair. *Trends in Cell Biology* 8: 483–489.
- KANTRUD, H. A., AND R. E. STEWART. 1984. Ecological distribution and crude density of breeding birds in prairie wetlands. *Journal of Wildlife Management* 48:426–437.
- KARRAN, P. 2000. DNA double strand break repair in mammalian cells. *Current Opinion in Genetics and Development* 10:144–150.
- KASPRZAK, K. S., W. BAL, D. W. PORTER, AND K. BIAŁKOWSKI. 1999. Studies on oxidative mechanisms of metal-induced carcinogenesis. Pp. 193–208 in M. Dizdaroglu, and A. E. Karakaya (editors). *Advances in DNA damage and repair: oxygen radical effects, cellular protection, and biological consequences*. Kluwer Academic Publishers, New York, NY.
- KASTLER, J., AND P. L. WIBERG. 1996. Sedimentation and boundary changes of Virginia salt marshes. *Estuarine, Coastal and Shelf Science* 42:683–700.
- KAYE, C. A., AND G. W. STUCKEY. 1973. Nodal tidal cycle of 18.6 yrs. *Geology* 1:141–145.
- KEARNEY, M. S. 1996. Sea-level change during the last thousand years in Chesapeake Bay. *Journal of Coastal Research* 12:977–983.
- KEARNEY, M. S., J. C. STEVENSON, AND L. G. WARD. 1994. Spatial and temporal changes in marsh vertical accretion rates at Monie Bay: implications for sea level rise. *Journal of Coastal Research* 10: 1010–1020.
- KEER, G., AND J. B. ZEDLER. 2002. Saltmarsh canopy architecture differs with the number and composition of species. *Ecological Applications* 12:456–473.
- KEIPER, R. 1985. *The Assateague ponies*. Tidewater Publishers, Centerville, MD.
- KELDSEN, T. J. 1997. Potential impacts of climate change on California Clapper Rail habitat of south San Francisco Bay. M.S. thesis, Colorado State University. Fort Collins, CO.
- KELLER, L. F., AND D. M. WALLER. 2002. Inbreeding effects in wild populations. *Trends in Ecology and Evolution* 17:230–241.
- KELLEY, J. T., D. F. BELKNAP, G. L. JACOBSON, JR., AND H. A. JACOBSON. 1988. The morphology and origin of saltmarshes along the glaciated coastline of Maine, USA. *Journal of Coastal Research* 4:649–666.
- KELLY, C. A., J. W. M. RUDD, R. A. BODALY, N. T. ROULET, V. L. ST. LOUIS, A. HEYES, T. R. MOORE, R. ARAVENA, B. DYCK, R. HARRISS, S. SCHIFF, B. WARNER, AND G. EDWARDS. 1997. Increases in fluxes of greenhouse gases and methyl mercury following flooding of an experimental reservoir, *Environmental Science and Technology* 31:1334–1344.
- KÉRY, M., J. A. ROYLE, AND H. SCHMID. 2005. Modeling avian abundance from replicated counts using binomial mixture models. *Ecological Applications* 15:1450–1461.
- KINLER, N. W., G. LINSCOMBE, AND P. R. RAMSEY. 1987. Nutria. Pp. 327–342 in M. Novak, J. Baker, M. Obbard, and B. Malloch (editors). *Wild furbearer management and conservation in North America*. Ministry of Natural Resources, Ottawa, ON, Canada.
- KIRBY, R. E., S. J. LEWIS, AND T. N. SEXXON. 1988. Fire in North American wetland ecosystems and fire-wildlife relations: an annotated bibliography. *Biological Report* 88, USDI Fish and Wildlife Service, Washington, DC.
- KJELMYR, J. E., G. W. PAGE, W. D. SHUFORD, AND L. E. STENZEL. 1991. Shorebird numbers in wetlands of the Pacific flyway: a summary of spring, fall, and winter counts in 1988, 1989, and 1990. Point Reyes Bird Observatory, Stinson Beach, CA.
- KLEIN, M. 1993. Waterbird behavioral response to human disturbance. *Wildlife Society Bulletin* 21: 31–39.
- KLICKA, J., AND R. M. ZINK. 1997. The importance of recent ice ages in speciation: a failed paradigm. *Science* 277:1666–1669.
- KNIGHT, R. L., AND D. N. COLE. 1991. Effects of recreational activity on wildlife in wildlands. *Transactions of the North American Wildlife and Natural Resources Conference* 56:238–247.
- KNOPF, F. L., AND J. A. SEDGWICK. 1987. Latent population responses of summer birds to a catastrophic, climatological event. *Condor* 89:869–873.
- KNOWLTON, S. M. 1971. Geomorphological history of tidal marshes, Eastern Shore, Virginia 1852–1966. M.S. thesis, University of Virginia, Charlottesville, VA.
- KOCKELMAN, W. J., T. J. CONOMOS, AND A. E. LEVITON. 1982. San Francisco Bay: use and protection. Sixty-first annual meeting of the American Association for the Advancement of Science, Pacific Division, Davis, CA.

- KOMAREK, E. V., SR. 1969. Fire and animal behavior. Proceedings of the Annual Tall Timbers Fire Ecology Conference 9:160–207.
- KOMAREK, E. V., SR. 1984. Remarks on fire ecology and fire management particularly pertinent to coastal regions. Pp. 4–10 in M. K. Foley, and S. P. Bratton (editors). Barrier islands: critical fire management problems: proceedings of a workshop. Canaveral National Seashore, Titusville, FL.
- KONEFF, M. D., AND J. A. ROYLE. 2004. Modeling wetland change along the United States Atlantic Coast. Ecological Modeling 177:41–59.
- KOOLHAAS, A., A. DEKINGA, AND T. PIERSMA. 1993. Disturbance of foraging Knots by aircraft in the Dutch Wadden Sea in August–October 1992. Wader Study Group Bulletin 68:20–22.
- KOPPELMAN, L. E., P. K. WEYL, M. GRANT GROSS, AND D. S. DAVIES. 1976. The urban sea: Long Island Sound. Praeger Publishers, New York, NY.
- KOTLIAR, N. B., AND J. A. WIENS. 1990. Multiple scales of patchiness and patch structure: a hierarchical framework for the study of heterogeneity. Oikos 59:253–260.
- KOZICKY, E. L., AND F. V. SCHMIDT. 1949. Nesting habits of the Clapper Rail in New Jersey. Auk 66:355–364.
- KRAKAUER, T. H. 1970. The ecological and physiological control of water loss in snakes. Ph.D. dissertation, University of Florida, Gainesville, FL.
- KRAMER, V. L., J. N. COLLINS, AND C. BEESLEY. 1995. Reduction of *Aedes dorsalis* by enhancing tidal action in a northern California marsh. Journal of the American Mosquito Control Association 11: 389–395.
- KREBS, C. 1989. Ecological methodology. Harper and Row, New York, NY.
- KRONE, R. B. 1996. Recent sedimentation in the San Francisco Bay system. Pp. 63–67 in J. T. Hollibaugh (editor) San Francisco Bay: the ecosystem. Further investigations into the natural history of the San Francisco Bay and delta with reference to the influence of man. American Association for the Advancement of Sciences, Pacific Division, San Francisco, CA.
- KROODSMA, D. E., AND J. VERNER. 1997. Marsh Wren (*Cistothorus palustris*). In A. Poole, and F. Gill (editors). The birds of North America, No. 308. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- KRUCHEK, B. L. 2004. Use of tidal marshland upland habitats by the marsh rice rat, (*Oryzomys palustris*). Journal of Mammalogy 85:569–576.
- KRUSE, K. L., J. R. LOVORN, J. Y. TAKEKAWA, AND J. MACKAY. 2003. Long-term productivity of Canvasbacks in a snowpack-driven desert marsh. Auk 120:107–119.
- KUHN-CAMPBELL, M. 1979. A tale of two dykes—the story of Cole Harbour. Lancelot Press, Hantsport, NS, Canada.
- KUTZBACH, J., R. GALLIMORE, S. HARRISON, P. BEHLING, R. SELIN, AND F. LAARIF. 1998. Climate and biome simulations for the past 21,000 years. Quaternary Science Reviews 17:473–506.
- LACK, D. 1947. The significance of clutch-size. Ibis 89: 302–352.
- LAFFERTY, K. D., C. C. SWIFT, AND R. F. AMBROSE. 1999. Extirpation and recolonization in a metapopulation of an endangered fish, the tidewater goby. Conservation Biology 13:1447–1453.
- LAMB, T., AND J. C. AVISE. 1992. Molecular and population aspects of mitochondrial DNA variability in the diamondback terrapin, *Malaclemys terrapin*. Journal of Heredity 83:262–269.
- LAMB, T., AND M. F. OSENTOSKI. 1997. On the paraphyly of *Malaclemys*: a molecular genetic assessment. Journal of Herpetology 31:258–265.
- LANGIS, R., M. ZALEJKO, AND J. B. ZEDLER. 1991. Nitrogen assessment in a constructed and a natural salt marsh of San Diego Bay. Ecological Applications 1:40–51.
- LARISON, B., S. A. LAYMON, P. L. WILLIAMS, AND T. B. SMITH. 2001. Avian responses to restoration: nest-site selection and reproductive success in Song Sparrows. Auk 118:432–442.
- LARSEN, T. 1976. Composition and density of the bird fauna in Swedish shore meadows. Ornis Scandinavica 7:1–12.
- LATHROP, R. G., L. WINDHAM, AND P. MONTESANO. 2003. Does *Phragmites* expansion alter the structure and function of marsh landscapes? Patterns and processes revisited. Estuaries 26:423–435.
- LAUDENSLAYER, W. F., JR., W. E. GRENFELL, JR., AND D. C. ZEINER. 1991. A check-list of the amphibians, reptiles, birds, and mammals of California. California Fish and Game 77:109–141.
- LAVERTY, G., AND R. F. WIDEMAN, JR. 1989. Sodium excretion rates and renal responses to acute salt loading in the European Starling. Journal of Comparative Physiology 159B:401–408.
- LAWSON, R. A., P. MEIER, G. FRANK, AND P. E. MOLER. 1991. Allozyme variation and systematics of the *Nerodia fasciata*-*Nerodia clarkii* complex of water snakes (Serpentes: Colubridae). Copeia 1991: 638–659.
- LAZELL, J. D., JR. 1979. Diamondback terrapins at Sandy Neck aquasphere. New England Aquarium 13:28–31.
- LAZELL, J. D., JR., AND P. J. AUGER. 1981. Predation on diamondback terrapin (*Malaclemys terrapin*) eggs by dunegrass (*Ammophila breviligulata*). Copeia 1981:723–724.
- LEBRETON, J. D., K. P. BURNHAM, J. CLOBERT, AND D. R. ANDERSON. 1992. Modeling survival and testing biological hypotheses using marked animals: a unified approach with case studies. Ecological Monographs 62:67–118.
- LECK, M. A. 1989. Wetland seed banks. Pp. 283–306 in M. A. Leck, V. T. Parker, and R. L. Simpson (editors). Ecology of soil seed banks. Academic Press, San Diego, CA.
- LEFEUVRE, J. C., AND R. F. DAME. 1994. Comparative studies of salt marsh processes in the New and Old Worlds: an introduction. Pp. 139–153 in W. J. Mitsch (editor). Global wetlands: Old World and New. Elsevier, Amstersdam, The Netherlands.
- LEGARE, M. L., D. B. McNAIR, W. C. CONWAY, AND S. A. LEGARE. 2000. Swamp Sparrow winter site fidelity records in Florida. Florida Field Naturalist 28:73–74.

- LEISLER, B., H. WINKLER, AND M. WINK. 2002. Evolution of breeding systems in Acrocephaline warblers. *Auk* 119:379–390.
- LEONARD, M. L., AND J. PICMAN. 1987. Nesting mortality and habitat selection by Marsh Wrens. *Auk* 104: 491–495.
- LEVIN, P., J. ELLIS, R. PETRIK, AND M. HAY. 2002. Indirect effects of feral horses on estuarine communities. *Conservation Biology* 16:1364–1371.
- LEVINE, J., S. BREWER, AND M. D. BERTNESS. 1998. Nutrient availability and the zonation of marsh plant communities. *Journal of Ecology* 86:285–292.
- LEWIS, J. C., AND K. L. SALEE. 1999. Introduction and range expansion of nonnative red foxes (*Vulpes vulpes*) in California. *American Midland Naturalist* 142:372–381.
- LIANG, F., M. HAN, P. J. ROMANIENKO, AND M. JASIN. 1998. Homology-directed repair is a major double-strand break repair pathway in mammalian cells. *Proceedings of the National Academy of Sciences, USA* 95:5172–5177.
- LIDICKER, W. Z., JR. 2000. California vole *Microtus californicus*. Pp. 229–231 in P. R. Olofson (editor). Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife. San Francisco Bay Area Wetlands Ecosystem Goals Project, San Francisco Bay Regional Water Control Board, Oakland, CA.
- LINDAU, C. W., AND L. R. HOSSNER. 1981. Substrate characterization of an experimental marsh and three natural marshes. *Soil Science Society of America Journal* 45:1171–1176.
- LINK, W. A., R. J. BARKER, J. R. SAUER, AND S. DROEGE. 1994. Within-site variability in surveys of wildlife populations. *Ecology* 75:1097–1108.
- LINVILLE, R. G., S. N. LUOMA, L. CUTTER, AND G. CUTTER. 2002. Increased selenium threat as a result of the invasion of the exotic bivalve *Potamocorbula amurensis* in the San Francisco Bay-Delta. *Aquatic Toxicology* 57:51–64.
- LINZEY, D. W. 1998. The mammals of Virginia. The McDonald and Woodward Publishing Company, Blacksburg, VA.
- LOCKWOOD, J. L., K. H. FENN, J. L. CURNUTT, D. ROSENTHAL, K. L. BAILENT, AND A. L. MAYER. 1997. Life history of the endangered Cape Sable Seaside Sparrow. *Wilson Bulletin* 109:720–731.
- LOMOLINO, M. V., 2000. A species-based theory of insular biogeography. *Global Ecology and Biogeography* 9:39–58.
- LONSDALE, W. M., AND A. M. LANE. 1994. Tourist vehicles as vectors of weed seeds in Kakadu National Park, Northern Australia. *Biological Conservation* 69:277–283.
- LONGARICH, D. G., T. E. HARVEY, AND J. E. TAKEKAWA. 1992. Trace element and organochlorine concentrations in California Clapper Rails (*Rallus longirostris obsoletus*) eggs. *Archives of Environmental Contamination and Toxicology* 23:147–153.
- LOPEZ-LABORDE, J. 1997. Geomorphological and geological setting of the Rio de la Plata. Pp. 1–16 in P. G. Wells, and G. R. Daborn (editors). The Rio de la Plata: An environmental overview. Dalhousie University, Halifax, NS, Canada.
- LOVICH, J. E., AND J. W. GIBBONS. 1990. Age at maturity influences adult sex ratio in the turtle *Malaclemys terrapin*. *Oikos* 59:126–134.
- LOWERY, G. H., JR. 1974. The mammals of Louisiana and its adjacent waters. Louisiana State University Press, Baton Rouge, LA.
- LOWTHER, P. E. 1996. Le Conte's Sparrow (*Ammodramus leconteii*). In A. Poole, and F. Gill (editors). The birds of North America, No. 224. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- LOWTHER, P. E., H. D. DOUGLAS III, AND C. L. GRATTO-TREVOR. 2001. Willet (*Catoptrophorus semipalmatus*). In A. Poole, and F. Gill (editors). The birds of North America, No. 579. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- LOYN, R. H., B. A. LANE, C. CHANDLER, AND G. W. CARR. 1986. Ecology of Orange-bellied Parrots (*Neophema chrysogaster*) at their main remnant wintering site. *Emu* 86:195–206.
- LUOMA, S. N., AND T. S. PRESSER. 2000. Forecasting selenium discharges to the San Francisco Bay-Delta Estuary: ecological effects of a proposed San Luis Drain extension. U.S. Geological Survey Open File Report 00-416, Water Resources Division, National Research Program, Menlo Park, CA.
- LYNCH, J. J. 1941. The place of burning in management of the Gulf Coast wildlife refuges. *Journal of Wildlife Management* 5:454–457.
- LYNCH, J. J., T. O'NEIL, D. LAY, AND A. EINARSEN. 1947. Management significance of damage by geese and muskrats to Gulf Coast marshes. *Journal of Wildlife Management* 11:50–76.
- MACARTHUR, R. H., AND E. O. WILSON. 1963. An equilibrium theory of insular biogeography. *Evolution* 17:373–387.
- MACARTHUR, R. H., AND E. O. WILSON. 1967. The theory of island biogeography. Monographs in population biology. Princeton University Press, Princeton, NJ.
- MACDONALD, I. A. W., L. L. LOOPE, M. B. USHER, AND O. HAMANN. Wildlife conservation and the invasion of nature preserves by introduced species: A global perspective. 1989. Pp. 215–255 in J. A. Drake, H. A. Mooney, F. diCastri, R. H. Groves, F. J. Kruger, M. Rejmanek, and M. Williamson (editors). Biological invasions: a global perspective. Scope 37. John Wiley and Sons, Chichester, UK.
- MACDONALD, K. B. 1977. Coastal salt marsh. Pp. 263–294 in M. G. Barbour, and J. Major (editors). Terrestrial vegetation of California. John Wiley and Sons, New York, NY.
- MACDONALD, K. B. 1990. Marine ecological characterization, bay history and physical environment. South San Diego Bay enhancement plan, Vol. 1, Resources Atlas. San Diego Unified Port District, San Diego, CA.
- MACK, R. N., D. SIMBERLOFF, W. M. LONSDALE, H. EVANS, M. CLOUT, AND F. A. BAZAZZ. 2000. Biotic invasions: causes, epidemiology, global consequences, and control. *Ecological Applications* 10:689–710.
- MACKAY, K. 2000. Suisun shrew. Pp. 233–236 in P. R. Olofson (editor). Baylands ecosystem species and community profiles: life histories and

- environmental requirements of key plants, fish and wildlife. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- MACKENZIE, D. I., J. D. NICHOLS, G. B. LACHMAN, S. DROEGE, J. A. ROYLE, AND C. A. LANGTIMM. 2002. Estimating site occupancy rates when detection probabilities are less than one. *Ecology* 83: 2248–2255.
- MACKINNON, K., AND D. B. SCOTT. 1984. An evaluation of saltmarshes in Atlantic Canada. Centre for Marine Geology, Dalhousie University, Halifax, NS, Canada.
- MACMILLEN, R. E. 1964. Water economy and salt balance in the western harvest mouse. *Physiological Zoology* 37:45–56.
- MAFFEI, W. A. 2000. Invertebrates. Pp. 154–192 in P. R. Olufson (editor). Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish, and wildlife. San Francisco Bay Area Wetlands Ecosystem Goals Project and San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- MAHALL, B. E., AND R. B. PARK. 1976. The ecotone between *Spartina foliosa* trin. and *Salicornia virginica* l. in salt marshes of northern San Francisco Bay. *Journal of Ecology* 64:421–433.
- MAHONEY, S. A., AND J. R. JEHL. 1985. Adaptations of migratory shorebirds to highly saline and alkaline lakes: Wilson's Phalarope and American Avocet. *Condor* 87:520–527.
- MAILLET, J. 2000. An examination of issues and threats to coastal habitats along the Northumberland Strait in New Brunswick. Fish and Wildlife Branch, New Brunswick Division of Natural Resources, Fredericton, NB, Canada.
- MALAMUD-ROAM, F. 2002. A late Holocene history of vegetation change in San Francisco estuary marshes using stable carbon isotopes and pollen analysis. Ph.D. dissertation, University of California, Berkeley, CA.
- MALAMUD-ROAM, F., AND B. L. INGRAM. 2001. Carbon isotopic compositions of plants and sediments of tide marshes in the San Francisco estuary. *Journal of Coastal Research* 17:17–19.
- MALAMUD-ROAM, F., AND B. L. INGRAM. 2004. Late Holocene ^{13}C and pollen records of paleosalinity from tidal marshes in the San Francisco Bay estuary, California. *Journal of Quaternary Research* 62: 134–145.
- MALAMUD-ROAM, F., L. INGRAM, M. HUGHES, AND J. FLORSHEIM. 2006. Holocene paleoclimate records from a large California estuarine system and its watershed region: linking watershed climate and bay conditions. *Quaternary Science Reviews* 25: 1570–1598.
- MALAMUD-ROAM, K. 2000. Tidal regimes and tidal marsh hydroperiod in the San Francisco estuary: theory and implications for ecological restoration. Ph.D. dissertation, University of California, Berkeley, CA.
- MALDONADO, J. E., C. VILÀ, AND F. HERTEL. 2004. Discordant patterns of morphological variation in genetically divergent populations of ornate shrews (*Sorex ornatus*). *Journal of Mammalogy* 85:886–896.
- MALDONADO, J. E., C. VILÀ, AND R. K. WAYNE. 2001. Tripartite genetic subdivisions in the ornate shrew (*Sorex ornatus*). *Molecular Ecology* 10: 127–147.
- MANGOLD, R. E. 1974. Clapper Rail studies. Final Report. USDI Fish and Wildlife Service, and State of New Jersey Division of Fish, Game, and Shellfisheries, Trenton, NJ.
- MANLY, B. F. J. 1998. Randomization, bootstrap and Monte Carlo methods in biology, 2nd edition. Chapman & Hall, London, UK.
- MANN, T. M. 1995. Population surveys for diamondback terrapins (*Malaclemys terrapin*) and gulf salt marsh snakes (*Nerodia clarkii clarkii*) in Mississippi. Technical Report No. 37, Mississippi Museum of Natural Science, Jackson, MS.
- MARSHALL, J. T. 1948a. Ecologic races of Song Sparrows in the San Francisco Bay region. Part I. habitat and abundance. *Condor* 50:193–215.
- MARSHALL, J. T. 1948b. Ecologic races of Song Sparrows in the San Francisco Bay region. Part II. geographic variation. *Condor* 50:233–256.
- MARSHALL, J. T., AND K. G. DEDRICK. 1994. Endemic Song Sparrows and Yellowthroats of San Francisco Bay. *Studies in Avian Biology* 15:316–327.
- MARSHALL, R. M., AND S. E. REINERT. 1990. Breeding ecology of Seaside Sparrows in a Massachusetts salt marsh. *Wilson Bulletin* 102:501–513.
- MARTIN, A. C., H. S. ZIM, AND A. L. NELSON. 1961. American wildlife and plants: a guide to wildlife food habits. Dover Publications, New York, NY.
- MARTIN, T. E. 1993. Nest predation among vegetation layers and habitat types: revising the dogma. *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., P. R. MARTIN, C. R. OLSON, B. J. HEIDINGER, AND J. J. FONTAINE. 2000. Parental care and clutch sizes in North and South American birds. *Science* 287:2454–2460.
- MARTINEZ, M. M., M. S. BÓ, AND J. P. ISACCH. 1997. Hábitat y abundancia de *Porzana spiloptera* y *Coturnicops notata* en Mar Chiquita (Prov. de Buenos Aires). *Hornero* 14:74–277.
- MARVIN-DI PASQUALE, M. C., J. L. AGEE, R. M. BOUSE, AND B. E. JAFFE. 2003. Microbial cycling of mercury in contaminated pelagic and wetland sediments of San Pablo Bay, California. *Environmental Geology* 43:260–267.
- MASON, O. K., AND J. W. JORDAN. 2001. Minimal late Holocene sea level rise in the Chukchi Sea: Arctic insensitivity to global change? *Global and Planetary Change* 32:13–23.
- MASSEY, B. W. 1979. The Belding's Savannah Sparrow. U.S. Army Corps of Engineers, DACW09-78-C-0008, Los Angeles, CA.
- MASSEY, B. W., AND E. PALACIOS. 1994. Avifauna of the wetlands of Baja California, Mexico: current status. *Studies in Avian Biology* 15:45–57.
- MASSEY, B. W., AND R. ZEMBAL. 1987. Vocalizations of the Light-footed Clapper Rail. *Journal of Field Ornithology* 58:32–40.
- MASSEY, B. W., R. ZEMBAL, AND P. D. JORGENSEN. 1984. Nesting habitat of the Light-footed Clapper

- Rail in southern California. *Journal of Field Ornithology* 55:67–80.
- MATHEW, J. 1994. The status, distribution and habitat of the Slender-billed Thornbill *Acanthiza irdalei* in South Australia. *South Australian Ornithologist* 32:1–19.
- MATHIESON, A. C., C. A. PENNIMAN, AND L. G. HARRIS. 1991. Northwest Atlantic rocky shore ecology. Pp. 109–191 in A. C. Mathieson, and P. H. Nienhuis (editors). *Ecosystems of the World: intertidal and littoral ecosystems*. Elsevier, Amsterdam, The Netherlands.
- MATTA, J. F., AND C. L. CLOUSE. 1972. The effect of periodic burning on marshland insect populations. *Virginia Journal of Science* 23:113.
- MAY, M. D. 1999. Vegetation and salinity changes over the last 2000 years at two islands in the northern San Francisco Estuary, California. M.A. thesis, University of California, Berkeley, CA.
- MAYFIELD, H. F. 1961. Nesting success calculated from exposure. *Wilson Bulletin* 73:255–261.
- MAYFIELD, H. F. 1975. Suggestions for calculating nest success. *Wilson Bulletin* 87:456–466.
- MAYR, E. 1942. *Systematics and the origin of species*. Harper and Brothers, New York, NY.
- MAYR, E. 1963. *Animal species and evolution*. Harvard University Press, Cambridge, MA.
- MCATEE, J. W., C. J. SCIFRES, AND D. L. DRAWE. 1979. Improvement of Gulf Coast cordgrass range with burning or shredding. *Journal of Range Management* 32:372–375.
- MCCABE, A. M., AND P. U. CLARK. 1998. Ice-sheet variability around the North Atlantic Ocean during the last deglaciation. *Nature* 392:373–377.
- MCDONALD, M. V. 1986. Scott's Seaside Sparrows. Ph.D. dissertation, University of Florida, Gainesville, FL.
- MCDONALD, M. V., AND R. GREENBERG. 1991. Nest departure calls in New World songbirds. *Condor* 93:365–374.
- McGARIGAL, K., AND B. J. MARKS. 1995. FRAGSTATS: spatial pattern analysis program for quantifying landscape structure. USDA Forest Service General Technical Report PNW-351. USDA Forest Service, Pacific Northwest Research Station, Corvallis, OR.
- MCNAB, B. K. 1991. The energy expenditure of shrews. Special publication, Museum of Southwestern Biology, University of New Mexico 1:75–91.
- MCNAIR, D. B. 1987. Egg data slips—are they useful for information on egg-laying dates and clutch size? *Condor* 89:369–376.
- MEANLEY, B. 1985. The marsh hen: a natural history of the Clapper Rail of the Atlantic coast salt marsh. Tidewater Publishers, Centreville, MD.
- MEANLEY, B. 1992. King Rail (*Rallus elegans*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 3. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- MEANLY, B., AND D. K. WEATHERBEE. 1962. Ecological notes on mixed populations of King Rails and Clapper Rails in Delaware marshes. *Auk* 79:453–457.
- MENARD, C., P. DUNCAN, G. FLEURANCE, J.-Y. GEORGES, AND M. LILA. 2002. Comparative foraging and nutrition of horses and cattle in European wetlands. *Journal of Applied Ecology* 39:120–133.
- MEREDITH, W., AND D. SAVEIKIS. 1987. Effects of open marsh water management (OMWM) on bird populations of a Delaware tidal marsh, and OMWM's use in waterbird habitat restoration and enhancement. Pp. 298–321 in W. R. Whitman, and W. H. Meredith (editors). *Waterfowl and wetlands symposium: proceedings of a symposium on waterfowl and wetlands management in the coastal zone of the Atlantic Flyway*. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover, DE.
- MEREDITH, W., D. SAVEIKIS, AND C. STACHECKI. 1985. Guidelines for open marsh water management in Delaware's salt marshes—objectives, system designs, and installation procedures. *Wetlands* 5:119–133.
- MERILÄ, J., AND B. C. SHELDON. 2001. Avian quantitative genetics. *Current Ornithology* 16:179–255.
- MERINO, M., A. VILA, AND A. SERRET. 1993. Relevamiento Ecológico de la Bahía de Samborombón, Buenos Aires. Boletín Técnico No. 16. Fundación Vida Silvestre, Buenos Aires, Argentina.
- MEYERSON, L. A., K. SALTONSTALL, L. WINDHAM, E. KIVIAT, AND S. FINDLAY. 2000. A comparison of *Phragmites australis* in freshwater and brackish water marsh environments in North America. *Wetlands Ecology and Management* 8:89–103.
- MICHELI, F., AND C. H. PETERSON. 1999. Estuarine vegetated habitats as corridors for predator movements. *Conservation Biology* 13:869–881.
- MILEWSKI, I., J. HARVEY, AND S. CALHOUN. 2001. Shifting sands: state of the coast in northern and eastern New Brunswick. Conservation Council of New Brunswick, Fredericton, NB, Canada.
- MILLER, D. L., F. E. SMEINS, AND J. W. WEBB. 1996. Mid-Texas coastal marsh change (1939–1991) as influenced by Lesser Snow Goose herbivory. *Journal of Coastal Research* 12:462–476.
- MILLER, F. W. 1928. A new white-tailed deer from Louisiana. *Journal of Mammalogy* 9:57–59.
- MILLER, G. 1996. Ecosystem management: improving the Endangered Species Act. *Ecological Applications* 6:715–717.
- MILLIGAN, D. C. 1987. Maritime dykelands. Nova Scotia Department of Government Services-Publishing Division, Halifax, NS, Canada.
- MILovich, J. A., C. LASTA, D. A. GAGLIARDINI, AND B. GUILLAUMONT. 1992. Pp. 869–882 in Initial study on the structure of the salt marsh in the Samborombón Bay coastal area. *Transactions of the First Thematic Conference on Remote Sensing for Marine and Coastal Environments*. New Orleans, LA.
- MITCHELL, M. S., R. A. LANCIA, AND J. A. GERWIN. 2001. Using landscape-level data to predict the distribution of birds on a managed forest: effects of scale. *Ecological Applications* 11:1692–1708.
- MITCHELL-JONES, A. J., G. AMORI, W. BOGDANOWICZ, B. KRYSTUFEK, P. J. H. REIJNDERS, F. SPITZENBERGER, M. STUBBE, J. B. M THISSEN, V. VOHRALIK, AND J. ZIMA. 1999. *The atlas of European mammals*. Academic Press, London, UK.

- MITRO, M. 2004. Demography and viability analyses of a diamondback terrapin population. Canadian Journal of Zoology 81:716-726.
- MITSCH, W. J., AND J. G. GOSSELINK. 2000. Wetlands. John Wiley, New York, NY.
- MIZELL, K. L. 1999. Effects of fire and grazing on Yellow Rail habitat in a Texas coastal marsh. Ph.D. dissertation, Texas A&M University, College Station, TX.
- MOFFITT, J. 1941. Notes on the food of the California Clapper Rail. Condor 43:270-273.
- MØLLER, H. S. 1975. Danish salt marsh communities of breeding birds in relation to different types of management. *Ornis Scandinavica* 6:125-133.
- MONTAGNA, W. 1940. The Acadian Sharp-tailed Sparrows of Popham Beach, Maine. Wilson Bulletin 52:191-197.
- MONTAGNA, W. 1942. The Sharp-tailed Sparrows of the Atlantic Coast. Wilson Bulletin 54:107-120.
- MONTEVECCHI, W. A. 1975. Behavioral and ecological factors influencing the reproductive success of a tidal salt marsh colony of Laughing Gulls (*Larus atricilla*). Ph.D. dissertation, Rutgers University, Newark, NJ.
- MONTEVECCHI, W. A. 1978. Nest site selection and its survival value among Laughing Gulls. Behavioral Ecology and Sociobiology 4:143-161.
- MONTEVECCHI, W. A., AND J. BURGER. 1975. Aspects of the reproductive biology of the northern diamondback terrapin *Malaclemys terrapin terrapin*. American Midland Naturalist 94:166-178.
- MOONEY, H. A., AND J. A. DRAKE (EDITORS). 1986. Ecology of biological invasions of North America and Hawaii. Springer-Verlag, New York, NY.
- MOORE, W. S. 1995. Inferring phylogenies from mtDNA variation: mitochondrial-gene trees versus nuclear-gene trees. Evolution 49:718-726.
- MOORMAN, T. E., AND P. N. GRAY. 1994. Mottled Duck (*Anas fulvigula*). In A. Poole, and F. Gill (editors). The birds of North America, No. 81. National Academy of Science, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- MORANTZ, D. L. 1976. Productivity and export from a marsh with a 15 m tidal range, and the effect of impoundment of selected areas. M.S. thesis, Dalhousie University, Halifax, NS, Canada.
- MORI, Y., N. S. SODHI, S. KAWANISHI, AND S. YAMAGISHI. 2001. The effect of human disturbance and flock composition on the flight distances of waterfowl species. Journal of Ethology 19:115-119.
- MORITZ, C. 1994. Defining 'evolutionary significant units' for conservation. Trends in Ecology and Evolution 9:373-375.
- MORITZ, C., S. LAVERY, AND R. SLADE. 1995. Using allele frequency and phylogeny to define units for conservation and management. American Fisheries Society Symposium 17:249-262.
- MORRIS, J. T., P. V. SUNDARESHWAR, C. T. NIETCH, B. KJERFVE, AND D. R. CAHOON. 2002. Responses of coastal wetlands to rising sea level. Ecology 83: 2869-2877.
- MORTON, E. S. 1975. Ecological sources of selection on avian sounds. American Naturalist 109:17-34.
- MORTON, J. M. 1995. Management of human disturbance and its effects on waterfowl. Pp. F56-F86 in W. R. Whitman, T. Strange, L. Widjeskog, R. Whittemore, P. Kehoe, and L. Roberts (editors). Waterfowl habitat restoration, enhancement and management in the Atlantic Flyway, 3rd edition. Environmental Management Communications, Atlantic Flyway Technical Section and Delaware Division of Fish and Wildlife, Dover, DE.
- MOWBRAY, T. B. 1997. Swamp Sparrow (*Melospiza georgiana*). In A. Poole, and F. Gill (editors). The birds of North America, No. 279. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- MULDAL, A. M., J. D. MOFFATT, AND R. J. ROBERTSON. 1986. Parental care of nestlings by male Red-winged Blackbirds. Behavioral Ecology and Sociobiology 19:105-114.
- MUNDY, N. I., N. S. BADCOCK, K. SCRIBNER, K. JANSEN, AND N. J. NADEAU. 2004. Conserved genetic basis of a quantitative plumage trait involved in mate choice. Science 303:1870-1873.
- MURRAY, B. G., JR. 1969. A comparative study of the LeConte's and Sharp-tailed sparrows. Auk 86: 199-231.
- MURRAY, B. G., JR. 1971. The ecological consequences of interspecific territorial behavior in birds. Ecology 52:414-423.
- MURRAY, B. G., JR. 1981. The origins of adaptive interspecific territorialism. Biological Review 56:1-22.
- MYERS, J. P., AND R. T. LESTER. 1992. Double jeopardy for migrating animals: multiple hits and resource asynchrony. Pp. 193-200 in R. L. Peters, and T. E. Lovejoy (editors). Global warming and biological diversity. Yale University Press, New Haven, CT.
- MYERS, P. A. 1988. The systematics of *Nerodia clarkii* and *N. fasciata*. M.S. thesis, Louisiana State University, Baton Rouge, LA.
- NATIONAL ACADEMY OF SCIENCES. 1987. Responding to changes in sea level: engineering implications. National Academy Press, Washington, DC.
- NATIONAL OCEAN SERVICE. 1974a. Bathymetric map, National Ocean Service 1307N-11B Vicinity Point Sur to Point Reyes, California. 1:250,000. U.S. Department of Commerce, Washington DC.
- NATIONAL OCEAN SERVICE. 1974b. Bathymetric Map, National Ocean Service 1307N-18. Point Reyes to Tolo Bank, California. 1:250,000. U.S. Department of Commerce, Washington DC.
- NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION. 2004a. Tide tables: West Coast of North and South America. International Marine Press. Camden, ME.
- NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION. 2004b. Tide tables: East Coast of North and South America. International Marine Press. Camden, ME.
- NATIONAL PARK SERVICE. 2002. AlaskaPak Functions Pack Extension for ArcView 3.2. Alaska Support Office, National Park Service, Anchorage, AK.
- NATIONAL WILDLIFE HEALTH CENTER. 2003a. West Nile virus. <http://www.nwhc.usgs.gov/disease_information/west_nile_virus/index.jsp> (6 June 2006).
- NATIONAL WILDLIFE HEALTH CENTER. 2003b. Avian cholera. <http://www.nwhc.usgs.gov/disease_information/avian_cholera/index.jsp> (6 June 2006).

- NAUGLE, D. E., K. F. HIGGINS, S. M. NUSSER, AND W. C. JOHNSON. 1999. Scale-dependent habitat use in three species of prairie wetland birds. *Landscape Ecology* 14:267–276.
- NAUGLE, D. E., R. R. JOHNSON, M. E. ESTEY, AND K. F. HIGGINS. 2001. A landscape approach to conserving wetland bird habitat in the prairie pothole region of eastern South Dakota. *Wetlands* 21:1–17.
- NEILL, W. T. 1958. The occurrence of amphibians and reptiles in saltwater areas and a bibliography. *Bulletin of Marine Science of the Gulf and Caribbean* 8:1–95.
- NELSON, K., R. J. BAKER, H. S. SHELLHAMMER, AND R. K. CHIESER. 1984. Test of alternative hypotheses concerning the origin of *Reithrodontomys raviventris*: genetic analysis. *Journal of Mammalogy* 65: 668–673.
- NELSON, W. S., T. DEAN, AND J. C. AVISE. 2000. Matrilineal history of the endangered Cape Sable Seaside Sparrow inferred from mitochondrial DNA polymorphism. *Molecular Ecology* 9: 809–813.
- NEREM, R. S., T. M. VAN DAM, AND M. S. SCHENEWERK. 1998. Chesapeake Bay subsidence monitored as wetlands' loss continues. *EOS Transactions, American Geophysical Union* 79:149–157.
- NERO, R. W. 1984. Redwings. Smithsonian Institution Press, Washington, DC.
- NETER, J., W. WASSERMAN, AND M. H. KUTNER. 1990. Applied linear statistical models: regression, analysis of variance, and experimental designs. 3rd edition. Richard D. Irwin, Homewood, IL.
- NEWMAN, J. R. 1976. Population dynamics of the wandering shrew *Sorex vagrans*. *Wasmann Journal of Biology* 34:235–250.
- NICE, M. M. 1937. Studies in the life history of the Song Sparrow. I. A population study of the Song Sparrow. *Transactions of the Linnean Society of New York* 4:1–247.
- NICHOLLS, R., AND S. LEATHERMAN. 1996. Adapting to sea-level rise: relative sea-level trends to 2100 for the United States. *Coastal Management* 24:301–324.
- NICHOLS, F. H., J. E. CLOERN, S. N. LUOMA, AND D. H. PETERSON. 1986. The modification of an estuary. *Science* 231:567–573.
- NICHOLS, F. H., J. K. THOMPSON, AND L. E. SCHEMEL. 1990. Remarkable invasion of San Francisco Bay (California USA) by the Asian clam *Potamocorbula Amurensis*: displacement of a former community. *Marine Ecology-Progress Series* 66:95–102.
- NICHOLS, J. D., J. E. HINES, J. R. SAUER, F. W. FALLON, J. E. FALLON, AND P. J. HEGLUND. 2000. A double-observer approach for estimating detection probability and abundance from point counts. *Auk* 117:393–408.
- NIERING, W. A., AND R. S. WARREN. 1980. Vegetation patterns and processes in New England salt marshes. *BioScience* 30:301–307.
- NIKITINA, D. L., J. E. PIZZUTO, R. A. SCHWIMMER, AND K. W. RAMSEY. 2000. An updated Holocene sea-level curve for the Delaware coast. *Marine Geology* 171:7–20.
- NISBET, I. C. T., V. APANIUS, AND M. S. FRIAR. 2002. Breeding performance of very old Common Terns. *Journal of Field Ornithology* 73:117–124.
- NIXON, S. M. 1982. The ecology of New England high salt marshes: a community profile. Office of Biological Services FWS/OBS-81-55. USDI Fish and Wildlife Service, Washington, DC.
- NOAA. 2003. A biogeographic assessment off north/central California to support the Joint Management Plan Review for Cordell Bank, Gulf of the Farallones, and Monterey Bay National Marine Sanctuaries: phase I—marine fishes, birds, and mammals. NOAA, National Centers for Coastal Ocean Science (NCCOS) Biogeography Team, Silver Spring, MD.
- NOAA. 2004a. Tide tables: west coast of North and South America. International Marine Press, Camden, ME.
- NOAA. 2004b. Tide tables: east coast of North and South America. International Marine Press, Camden, ME.
- NOAA. 2004c. Tide tables: Europe and the west coast of Africa. International Marine Press, Camden, ME.
- NOAA. 2004d. Tide tables: central and western Pacific Ocean and Indian Ocean. International Marine Press, Camden, ME.
- NOCERA, J. J., G. J. PARSONS, G. R. MILTON, AND A. H. FREDEEN. 2005. Compatibility of delayed cutting regime with bird breeding and hay nutritional quality. *Agriculture, Ecosystems and Environment* 107:245–253.
- NOL, E., AND H. BLOKPOEL. 1983. Incubation period of Ring-billed Gulls and the egg immersion technique. *Wilson Bulletin* 95:283–286.
- NORRIS, K., T. COOK, B. O'DOWD, AND C. DURBIN. 1997. The density of Redshank (*Tringa tetanus*) breeding on the salt marshes of the wash in relation to habitat and its grazing management. *Journal of Applied Ecology* 34:995–1013.
- NOWAK, R. M. 1999. Walker's mammals of the world. The Johns Hopkins University Press, Baltimore, MD.
- NUR, N., S. ZACK, J. EVENS, AND T. GARDALI. 1997. Tidal marsh birds of the San Francisco Bay region: status, distribution, and conservation of five category 2 taxa. Final Report to U.S. Geological Survey-Biological Resources Division, Point Reyes Bird Observatory, Stinson Beach, CA.
- NUSSER, J. A., R. M. GOTO, D. B. LEDIG, R. C. FLEISCHER, AND M. M. MILLER. 1996. RAPD analysis reveals low genetic variability in the endangered Light-footed Clapper Rail. *Molecular Ecology* 5: 463–472.
- NYMAN, J. A., AND R. H. CHABRECK. 1995. Fire in coastal marshes: history and recent concerns. *Proceedings of the Annual Tall Timbers Fire Ecology Conference* 19:134–141.
- NYS, Y., M. T. HINCKE, J. L. ARIAS, J. M. GARCIA-RUIZ, AND S. E. SOLOMAN. 1999. Avian eggshell mineralization. *Poultry Avian Biological Review* 10: 143–166.
- O'BRIEN, S. J., AND E. MAYR. 1991. Bureaucratic mischief: recognizing endangered species and subspecies. *Science* 251:1187–1188.
- ODUM, H. T. 1953. Factors controlling marine invasion into Florida fresh waters. *Bulletin of Marine Sciences of the Gulf and Caribbean* 3:134–156.

- ODUM, W. E. 1988. Comparative ecology of tidal freshwater and salt marshes. Annual Review of Ecology and Systematics 19:147–176.
- ODUM, W. E., E. P. ODUM, AND H. T. ODUM. 1995. Nature's pulsing paradigm. Estuaries 18:547–555.
- OFFICE OF SPILL PREVENTION AND RESPONSE. 2003. SS Jacob Luckenbach oil removal project completed. California Office of Spill Prevention and Response 10:1–28.
- OGAN, C. V., AND R. M. JUREK. 1997. Biology and ecology of feral, free-roaming, and stray cats. Pp. 87–91 in J. E. Harris, and C. V. Ogan (editors). Mesocarnivores of northern California: biology, management, and survey techniques, workshop manual. Humboldt State University and The Wildlife Society, California North Coast Chapter, Arcata, CA.
- OHMART, R. D. 1972. Physiological and ecological observations concerning the salt-secreting nasal glands of the Roadrunner. Comparative Biochemical Physiology 43A:311–316.
- OLSEN, L., J. OLLERHEAD, AND A. HANSON. 2005. Relationships between halophytic vascular plant species' zonation and elevation in salt marshes of the Bay of Fundy and Northumberland Strait, New Brunswick, Canada. Proceedings 12th Canadian Coastal Conference, Dartmouth, NS, Canada.
- OLSON, S. L. 1997. Towards a less imperfect understanding of the systematics and the biogeography of the Clapper and King rail complex (*Rallus longirostris* and *R. elegans*). Pp. 93–111 in R. W. Dickerman (editor). The era of Allan R. Phillips: a festschrift. Horizon Communications, Albuquerque, NM.
- O'NEIL, T. 1949. The muskrat in the Louisiana coastal marshes. Louisiana Wildlife and Fisheries Commission, New Orleans, LA.
- ONEY, J. 1954. Clapper Rail survey and investigative study. Final Report Federal Aid Project W-9-R. Georgia Game and Fish Commission, Atlanta, GA.
- ORIANS, G. 1969. On the evolution of mating systems in birds and mammals. American Naturalist 103: 589–603.
- ORIANS, G. H., AND G. M. CHRISTMAN. 1968. A comparative study of the behavior of Red-winged, Tricolored, and Yellow-headed blackbirds. University of California Publications in Zoology 84, University of California, Berkeley, CA.
- ORIANS, G. H., AND M. F. WILLSON. 1964. Interspecific territories in birds. Ecology 45:736–745.
- ORSON, R. A. 1999. A paleoecological assessment of *Phragmites australis* in New England tidal marshes: changes in plant community structure during the last few millennia. Biological Invasions 1:149–158.
- OSGOOD, D. T., D. J. YOZZO, R. M. CHAMBERS, D. JACOBSON, T. HOFFMAN, AND J. WNEK. 2003. Tidal marsh hydrology and habitat utilization by resident nekton in *Phragmites* and non-phragmites marshes. Estuaries 26:522–533.
- OWEN, J. G., AND R. S. HOFFMANN. 1983. *Sorex ornatus*. Mammalian Species 212:1–5.
- PADGETT-FLOHR, G. E., AND L. ISAKSON. 2003. A random sampling of salt marsh harvest mice in a muted tidal marsh. Journal of Wildlife Management 67: 646–653.
- PAGE, G. W., L. E. STENZEL, AND J. E. KJELMYR. 1999. Overview of shorebird abundance and distribution in wetlands of the Pacific coast of the contiguous United States. Condor 101:461–471.
- PALMER, A. J. M. 1979. Some observations on the relationships between high tide levels and coastal resources in the Cumberland Basin. Proceedings of the Nova Scotia Institute of Science 29:347–352.
- PALMER, R. S. (EDITOR). 1976. Handbook of North American birds: Vol. 2, waterfowl. Yale University Press, New Haven, CT.
- PAN, J. J., AND J. S. PRICE. 2002. Fitness and evolution in clonal plants: the impact of clonal growth. Evolutionary Ecology 15:583–600.
- PAPADOPOULUS, Y. A. 1995. The agricultural value of dykelands. Pp. 26–28 in J. Bain, and M. Evans (editors). Dykelands enhancement workshop. Canadian Wildlife Service, Sackville, NB, Canada.
- PARSONS, K. C. 2003. Reproductive success of wading birds using *Phragmites* marsh and upland nesting habitats. Estuaries 26:596–601.
- PASHLEY, D. N., C. J. BEARDMORE, J. A. FITZPATRICK, R. P. FORD, W. C. HUNTER, M. S. MORRISON, AND K. V. ROSENBERG. 2000. Partners in flight: conservation of the land birds of the United States. American Bird Conservancy, The Plains, VA.
- PATRICK, W. H., AND R. D. DELAUNE. 1990. Subsidence, accretion, and sea-level rise in South San Francisco Bay marshes. Limnology and Oceanography 35: 1389–1395.
- PATTERSON, C. B. 1991. Relative parental investment in the Red-winged Blackbird. Journal of Field Ornithology 62:1–18.
- PEABODY, F. E., AND J. M. SAVAGE. 1958. Evolution of a coast range corridor in California and its effect on the origin and dispersal of living amphibians and reptiles. Pp. 159–186 in C. L. Hubbs (editor). Zoogeography. Publication 51. American Association for the Advancement of Science, Washington, DC.
- PEARSON, O. P. 1951. Additions to the fauna of Santa Cruz Island, California, with a description of a new subspecies of *Reithrodontomys megalotis*. Journal of Mammalogy 32:366–368.
- PELTIER, W. R. 1994. Ice age paleotopography. Science 265:195–201.
- PELTIER, W. R. 1996. Global sea level rise and glacial isostatic adjustment: an analysis of data from the east coast of North America. Geophysical Research Letters 23:717–720.
- PELTIER, W. R., I. SHENNAN, R. DRUMMOND, AND B. HORTON. 2002. On the postglacial isostatic adjustment of the British Isles and the shallow viscoelastic structure of the Earth. Geophysical Journal International 148:443–475.
- PENDLETON, E. C., AND J. C. STEVENSON. 1983. Part V. Burning and production. Pp. 57–71 in Investigations of marsh losses at Blackwater Refuge. Reference No. 83-154-H.P.E.L. Horn Point Environmental Laboratories, University of Maryland, Cambridge, MD.
- PEREIRA, W. E., T. L. WADE, F. D. HOSTETTLER, AND F. PARCHASO. 1999. Accumulation of butyltins in sediments and lipid tissues of the Asian clam, *Potamocorbula amurensis*, near Mare Island Naval

- Shipyard, San Francisco Bay. Marine Pollution Bulletin 38:1005–1010.
- PERKINS, C. J. 1968. Controlled burning in the management of muskrats and waterfowl in Louisiana coastal marshes. Proceedings of the Annual Tall Timbers Fire Ecology Conference 8:269–280.
- PERRY, M. C., AND A. DELLER. 1996. Review of factors affecting the distribution and abundance of waterfowl in shallow-water habitats of the Chesapeake Bay. Estuaries 19:272–278.
- PETERS, J. L. 1942. The Canadian forms of the Sharp-tailed Sparrow *Ammospiza caudacata*. Annals of the Carnegie Museum 29:201–210.
- PETERS, R. L., AND T. E. LOVEJOY (EDITORS). 1992. Global warming and biological diversity. Yale University Press, New Haven, CT.
- PETERSON, D., D. CAYAN, J. DILEO, M. NOBLE, AND M. DETTINGER. 1995. The role of climate in estuarine variability. American Scientist 83:58–67.
- PETERSON, L. P., G. W. TANNER, AND W. M. KITCHENS. 1995. A comparison of passerine foraging habits in two tidal marshes of different salinity. Wetlands 15:315–323.
- PETHICK, J. S. 1992. Saltmarsh geomorphology. Pp. 41–62 in J. R. L. Allen, and K. Pye (editors). Salt-marshes—morphodynamics, conservation and engineering significance. Cambridge University Press, Cambridge, UK.
- PETTUS, D. 1958. Water relationships in *Natrix sipedon*. Copeia 1958:207–211.
- PETTUS, D. 1963. Salinity and subspeciation in *Natrix sipedon*. Copeia 1963:499–504.
- PFISTER, C., B. A. HARRINGTON, AND M. LAVINE. 1992. The impact of human disturbance on shorebirds at a migration staging area. Biological Conservation 60:115–126.
- PHILIPPART, C. J. M. 1994. Interactions between *Arenicola marina* and *Zostera noltii* on a tidal flat in the Wadden Sea. Marine Ecology Progress Series 111:251–257.
- PICMAN, J. 1977. Destruction of eggs by the Long-billed Marsh Wren (*Telmatodytes palustris palustris*). Canadian Journal of Zoology 55:1914–1920.
- PICMAN, J. 1980. Impact of Marsh Wrens on reproductive strategy of Red-winged Blackbirds. Canadian Journal of Zoology 58:337–350.
- PICMAN, J. 1981. The adaptive value of polygyny in marsh-nesting Red-winged Blackbirds: renesting, territory tenacity, and mate fidelity of females. Canadian Journal of Zoology 59: 2284–2296.
- PICMAN, J. 1984. Experimental study on the role of intra- and inter-specific competition in the role of nest-destroying behavior in Marsh Wrens. Canadian Journal of Zoology 62:2353–2356.
- PICMAN, J., AND A. ISABELLE. 1995. Sources of nesting mortality and correlates of nesting success in Yellow-headed Blackbirds. Auk 112:183–191.
- POAG, C. W. 1973. Late Quaternary sea levels in the Gulf of Mexico. Gulf Coast Association of Geology Society Transactions 23:394–400.
- POMERANTZ, G. A., D. J. DECKER, G. R. GOFF, AND K. G. PURDY. 1988. Assessing impact of recreation on wildlife: a classification scheme. Wildlife Society Bulletin 16:58–62.
- POOLE, A. (EDITOR). 2006. The birds of North America online. Cornell Laboratory of Ornithology, Ithaca, NY <<http://bna.birds.cornell.edu/BNA>> (1 March 2006).
- POPPE, L. J., AND C. POLLONI (EDITORS). 1998. Long Island Sound environmental studies. U.S. Geological Survey Open-File Report 98-502. U.S. Geological Survey, Woods Hole, MA.
- POST, W. 1974. Functional analysis of space-related behavior in the Seaside Sparrow. Ecology 55:564–575.
- POST, W. 1981. The influence of rice rats *Oryzomys palustris* on the habitat use of the Seaside Sparrow *Ammospiza maritima*. Behavioural Ecology and Sociobiology 9:35–40.
- POST, W. 1992. Dominance and mating success in male Boat-tailed Grackles. Animal Behaviour 44: 917–929.
- POST, W. 1998. The status of Nelson's and Saltmarsh Sharp-tailed sparrows on Waccassa Bay, Levy County, Florida. Florida Field Naturalist 26: 1–6.
- POST, W., AND F. ENDERS. 1970. Notes on a salt marsh Virginia Rail population. Kingbird 20:61–67.
- POST, W., AND J. S. GREENLAW. 1975. Seaside Sparrow displays: their function in social organization and habitat. Auk 92:461–492.
- POST, W., AND J. S. GREENLAW. 1982. Comparative costs of promiscuity and monogamy: a test of reproductive effort theory. Behavioral Ecology and Sociobiology 10:101–107.
- POST, W. J., AND J. S. GREENLAW. 1994. The Seaside Sparrow (*Ammodramus maritimus*). In A. Poole, and F. Gill (editors). The birds of North America, No. 194. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- POST, W., J. S. GREENLAW, T. L. MERRIAM, AND L. A. WOOD. 1983. Comparative ecology of northern and southern populations of the Seaside Sparrow. Pp. 123–136 in T. L. Quay, J. B. Funderburg, Jr., D. S. Lee, E. F. Potter, and C. S. Robbins (editors). The Seaside Sparrow, its biology and management. Occasional Papers of the North Carolina Biological Survey, Raleigh, NC.
- POST, W., J. P. POSTON, AND G. T. BANCROFT. 1996. Boat-tailed Grackle (*Quiscalus major*). In A. Poole, and F. Gill (editors). The birds of North America, No. 207. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- POST, W. M. 1974. Functional analysis of space-related behavior in the Seaside Sparrow. Ecology 55: 564–575.
- POULIN, B., G. LEFEBVRE, AND A. MAUCHAMP. 2002. Habitat requirements of passersines and reedbed management in southern France. Biological Conservation 107:315–325.
- POULSON, T. L. 1965. Countercurrent multiplication in avian kidneys. Science 148:389–391.
- POULSON, T. L. 1969. Salt and water balance in Seaside and Sharp-tailed sparrows. Auk 86: 473–489.
- POULSON, T. L., AND G. A. BARTHOLOMEW. 1962. Salt balance in the Savannah Sparrow. Physiological Zoology 35:109–119.

- POWELL, A. N. 1993. Nesting habitat of Belding's Savannah Sparrows in coastal saltmarshes. *Wetlands* 13:129-133.
- POWELL, A. N., AND C. L. COLLIER. 1998. Reproductive success of Belding's Savannah Sparrows in a highly fragmented landscape. *Auk* 115: 508-513.
- PRIBIL, S., AND J. PICMAN. 1997. The importance of using the proper methodology and spatial scale in the study of habitat selection by birds. *Canadian Journal of Zoology* 75:1835-1844.
- PRICE, J. S., AND M. K. WOO. 1988. Studies of a subarctic coastal marsh: I. Hydrology. *Journal of Hydrology* (Amsterdam) 103:275-292.
- PRITCHARD, P. C. H. 1979. Encyclopedia of turtles. TFH Publications, Inc., Hong Kong, China.
- PROCHE, S., AND D. J. MARSHALL. 2001. Global distribution patterns of non-halacarid marine intertidal mites: implications for their origins in marine habitats. *Journal of Biogeography* 28:47-58.
- PROVOST, M. W. 1969. Ecological control of salt marsh mosquitoes with side benefits to birds. *Tall Timbers Conference on Ecological Animal Control by Habitat Management* 1:193-206.
- PUGH, D. T. 1987. Tides, surges, and mean sea-level. Wiley, New York, NY.
- PULLIAM, H. R. 1988. Sources, sinks, and population regulation. *American Naturalist* 132:653-661.
- PYLE, P. 1997. Identification guide to North American Birds. Part I. Columbidae to Paloceidae. Slate Creek Press, Bolinas, CA.
- PYSEK, P., K. PRACH, M. REJMANEK, AND M. WADE (EDITORS). 1995. Plant invasions. SPB Publishing, Amsterdam, The Netherlands.
- QUINN, T. M. 2000. Shallow water science and ocean drilling challenges. *EOS, Transactions of American Geophysical Union* 81:397.
- RAICHEL, D. L., K. W. ABLE, AND J. M. HARTMAN. 2003. The influence of *Phragmites* (common reed) on the distribution, abundance, and potential prey of a resident marsh fish in the Hackensack Meadowlands, New Jersey. *Estuaries* 26: 511-521.
- RALPH, C. J., G. R. GEUPEL, P. PYLE, T. E. MARTIN, AND D. F. DESANTE. 1993. Handbook of field methods for monitoring landbirds. USDA Forest Service General Technical Report PSW-GTR-144. USDA Forest Service, Pacific Southwest Research Station, Albany, CA.
- RALPH, C. J., S. DROEGE, AND J. R. SAUER. 1995. Managing and monitoring birds using point counts: standards and applications. Pp. 161-168 in C. J. Ralph, J. R. Sauer, and S. Droege (editors). Monitoring bird populations by point counts. USDA Forest Service General Technical Report PSW-GTR-149. USDA Forest Service Pacific, Southwest Research Station, Albany, CA.
- RASSMUSSEN, J. B., D. J. ROWAN, D. R. S. LEAN, AND J. H. CAREY. 1990. Food chain structure in Ontario lakes determines PCB levels in lake trout (*Salvelinus namaycush*) and other pelagic fish. *Canadian Journal of Fisheries Aquatic Sciences* 47:2030-2038.
- RATTI, J. T., AND E. O. GARTON. 1996. Research and experimental design. Pp. 1-23 in T. A. Bookhout (editor). *Research and management techniques for wildlife and habitats*. Fifth edition, revised. The Wildlife Society, Bethesda, MD.
- REDFORD, K., AND J. EISENBERG. 1992. *Mammals of the Neotropics, the Southern Cone*. University of Chicago Press, Chicago, IL.
- REED, A., AND A. D. SMITH. 1972. Man and waterfowl in tidal shorelines of eastern Canada. Pp. 151-155 in *Proceedings of coastal zone conference*. Dartmouth, NS, Canada.
- REED, J. M., L. S. MILLS, J. B. DUNNING, JR., E. S. MENGES, K. S. McKELVEY, R. FRYE, S. R. BEISSINGER, M. C. ANSTETT, AND P. MILLER. 2002. Emerging issues in population viability analysis. *Conservation Biology* 16:7-19.
- REID, W. V., AND M. C. TREXLER. 1992. Responding to potential impacts of climate change on U.S. coastal diversity. *Coastal Management* 20:117-142.
- REINERT, S. E. 1979. Breeding ecology of the Swamp Sparrow (*Melospiza georgiana*) in a southern Rhode Island peatland. M.S. thesis, University of Rhode Island, Kingston, RI.
- REINERT, S. E., F. C. GOLET, AND W. R. DERAGON. 1981. Avian use of ditched and unditchd salt marshes in southeastern New England: a preliminary report. *Transactions of the Northeastern Mosquito Control Association* 27:1-23.
- REINERT, S. E., AND M. J. MELLO. 1995. Avian community structure and habitat use in a southern New England estuary. *Wetlands* 15:9-19.
- REINSON, R. C. 1980. Variations in tidal inlet morphology and stability, northeast New Brunswick. Pp. 23-39 in S. B. McCann (editor). *The coastline of Canada*. Geological Survey of Canada, Paper 80-10. Minister of Supply and Services Canada, Ottawa, ON, Canada.
- REISEN, W. K., V. L. KRAMER, AND L. S. MIAN. 1995. Interagency guidelines for the surveillance and control of selected vector borne pathogens in California. *Mosquito and Vector Control Association of California*, Elk Grove, CA.
- RIBIC, C. A., S. LEWIS, S. MELVIN, J. BART, AND B. PETERJOHN. 1999. Proceedings of the marshbird monitoring workshop. USDI Fish and Wildlife Service Region 3 Administrative Report, Fort Snelling, MN.
- RICE, W. R., AND E. E. HOSTERT. 1993. Laboratory experiments on speciation: what have we learned in 40 years? *Evolution* 47:1637-1653.
- RICH, T., R. L. ALLEN, AND A. H. WYLIE. 2000. Defying death after DNA damage. *Nature* 407:777-783.
- RICHARDS, M. P., AND M. J. PACKARD. 1996. Mineral metabolism in avian embryos. *Poultry Avian Biological Review* 7:143-161.
- RICKLEFS, R. E. 1980. Geographical variation in clutch size among passerine birds: Ashmole's hypothesis. *Auk* 97:38-49.
- RICKLEFS, R. E., AND E. BERMINGHAM. 2002. The concept of the taxon cycle in biogeography. *Global Ecology and Biogeography Letters* 11:353-361.
- RICKLEFS, R. E., AND G. BLOOM. 1977. Components of avian breeding productivity. *Auk* 94:86-96.
- RIDGELEY, R., AND G. TUDOR. 1989. *The birds of South America*. Vol. I. The oscine passerines. University of Texas Press, Austin, TX.

- RIDGELY, R., AND G. TUDOR. 1994. The birds of South America. Vol. II. The suboscine passerines. University of Texas Press, Austin, TX.
- RIDGWAY, R. 1899. New species of American birds.-iii. Fringillidae (continued). *Auk* 16:35–37.
- RIDGWAY, R., AND H. FRIEDMANN. 1901. The birds of North and Middle America. Government Printing Office, Washington, DC.
- RIITERS, K. H., R. V. O'NEILL, AND K. B. JONES. 1997. Assessing habitat suitability at multiple scales: a landscape-level approach. *Biological Conservation* 81:191–202.
- RIPLEY, S. D. 1977. Rails of the world. David R. Godine Publisher, Boston, MA.
- RISING, J. D. 1989. Sexual dimorphism in *Passerculus sandwichensis* as it is. *Evolution* 43:1121–1123.
- RISING, J. D. 1996. The sparrows of the United States and Canada. Academic Press, San Diego, CA.
- RISING, J. D. 2001. Geographic variation in size and shape of Savannah Sparrows (*Passerculus sandwichensis*). *Studies in Avian Biology* 23.
- RISING, J. D., AND J. C. AVISE. 1993. Application of genealogical-concordance principles to the taxonomy and evolutionary history of the Sharp-tailed Sparrow (*Ammodramus caudacutus*). *Auk* 110:844–856.
- ROBBINS, C. S., D. BYSTRAK, AND P. H. GEISSLER. 1986. The breeding bird survey: its first fifteen years, 1965–1979. USDI Fish and Wildlife Service Resource Publication 157. Washington, DC.
- ROBBINS, C. S., D. K. DAWSON, AND B. A. DOWELL. 1989. Habitat area requirements of breeding forest birds of the Middle Atlantic States. *Wildlife Monographs* 103:1–34.
- ROBBINS, J. A., C. W. HOLMES, R. HALLEY, M. BOTHNER, E. SHINN, J. GRANEY, G. KEELER, M. TENBRINK, K. A. ORLANDINI, AND D. RUDNICK. 2000. Time-averaged fluxes of lead and fallout radionuclides to sediment in Florida Bay. *Journal of Geophysical Research* 105:805–821.
- ROBERTS, B. A., AND A. ROBERTSON. 1986. Saltmarshes of Atlantic Canada: their ecology and distribution. *Canadian Journal of Botany* 64:455–467.
- ROBERTS, L. A. 1989. Productivity and flux of organic material from two Maritime high saltmarshes. M.S. thesis, Acadia University, Wolfville, NS, Canada.
- ROBERTS, L. A. 1993. Report on the status of saltmarsh habitat in New Brunswick. Wetlands and Coastal Habitat Program-New Brunswick Department of Natural Resources and Energy, Fredericton, NB, Canada.
- ROBINSON, G. D., AND W. A. DUNSON. 1975. Water and sodium balance in the estuarine diamondback turtle (*Malaclemys*). *Journal of Comparative Physiology A* 105:129–152.
- ROBINSON, G. D., AND W. A. DUNSON. 1976. Water and sodium balance in the estuarine diamondback terrapin (*Malaclemys*). *Journal of Comparative Physiology* 105:129–152.
- ROCKE, T. E., AND M. FRIEND. 1999. Avian botulism. Pp. 271–286 in M. Friend, and J. C. Franson (editors). Field manual of wildlife diseases. U.S. Geological Survey, Biological Resources Discipline, National Wildlife Health Center, Madison, WI.
- RODGERS, J. A., JR., AND H. T. SMITH. 1997. Buffer zone distances to protect foraging and loafing waterbirds from human disturbance in Florida. *Wildlife Society Bulletin* 25:39–145.
- RODRIGUEZ-NAVARRO, A., K. F. GAINES, C. S. ROMANEK, AND G. R. MASSON. 2002a. Mineralization of Clapper Rail eggshell from a contaminated salt marsh system. *Archives of Environmental Contamination and Toxicology* 43:449–460.
- RODRIGUEZ-NAVARRO, A., O. KALIN, Y. NYS, AND J. M. GARCIA-RUIZ. 2002b. Influence of the microstructure and crystallographic texture on the fracture strength of hen's eggshells. *British Poultry Science* 43:395–403.
- RODRIGUEZ-ROBLES, J. A., D. F. DENARDO, AND R. E. STAUB. 1999. Phylogeography of the California mountain kingsnake, *Lampropeltis zonata* (Colubridae). *Molecular Ecology* 8:1923–1935.
- RODRIGUEZ-ROBLES, J. A., G. R. STEWART, AND T. J. PAPENFUSS. 2001. Mitochondrial DNA-based phylogeography of North American rubber boas, *Charina bottae* (Serpentes: Boidae). *Molecular Phylogenetics and Evolution* 18:227–237.
- ROLAND, A. E. 1982. Geological background and physiography of Nova Scotia. The Nova Scotian Institute of Science, Halifax, NS, Canada.
- ROMAN, C. T., N. JAWORSKI, F. T. SHORT, S. FINDLAY, AND R. S. WARREN. 2000. Estuaries of the Northeastern United States: habitat and land use signatures. *Estuaries* 23:743–764.
- ROMAN, C. T., W. A. NIERING, AND R. S. WARREN. 1984. Salt marsh vegetation change in response to tidal restriction. *Environmental Management* 8: 141–150.
- ROMAN, C. T., J. A. PECK, J. R. ALLEN, J. W. KING, AND P. G. APPLEBY. 1997. Accretion of a New England (U.S.A.) salt marsh in response to inlet migration, storms, and sea-level rise. *Estuarine, Coastal, and Shelf Science* 45:717–727.
- ROMPRE, G., A. PAGE, AND F. SHAFFER. 1998. Status report on Nelson's Sharp-tailed Sparrow *Ammodramus nelsoni* in Canada. Environnement Canada, Service Canadien de la Faune, Chateauguay, QC, Canada.
- ROOSENBURG, W. M. 1990. The diamondback terrapin: population dynamics, habitat requirements, and opportunities for conservation. Chesapeake Research Consortium Publication Number 137: 227–234.
- ROOSENBURG, W. M. 2003. The impact of crab pot fisheries on terrapin (*Malaclemys terrapin*) populations: where we are and where do we need to go? Pp. 23–30 in C. W. Swarth, W. M. Roosenberg, and E. Kiviat (editors). Conservation and ecology of turtles of the mid-Atlantic region; a symposium. Bibliomania, Salt Lake City, UT.
- ROOSENBURG, W. M., W. CRESKO, M. MODESITTE, AND M. B. ROBBINS. 1997. Diamondback terrapin (*Malaclemys terrapin*) mortality in crab pots. *Conservation Biology* 11:1166–1172.
- ROOSENBURG, W. M., AND A. E. DUNHAM. 1997. Clutch and egg size variation in the diamondback terrapin, *Malaclemys terrapin*. *Copeia* 1997:290–297.
- ROOSENBURG, W. M., K. L. HALEY, AND S. MCGUIRE. 1999. Habitat selection and movements of diamondback terrapins, *Malaclemys terrapin*, in a Maryland

- estuary. *Chelonian Conservation and Biology* 3: 425–429.
- ROOT, K. V. 1998. Evaluating the effects of habitat quality, connectivity, and catastrophes on a threatened species. *Ecological Applications* 8: 854–865.
- ROOTH, J. E., J. C. STEVENSON, AND J. C. CORNWELL. 2003. Increased sedimentation rates following invasion by *Phragmites australis*: The role of litter. *Estuaries* 26:475–483.
- ROSENBERG, K. V., R. D. OHMART, W. C. HUNTER, AND B. W. ANDERSON. 1991. Birds of the lower Colorado River valley. University of Arizona Press, Tucson, AZ.
- ROSENBERG, N. A., AND M. NORDBORG. 2002. Genealogical trees, coalescent theory and the analysis of genetic polymorphisms. *Nature Reviews Genetics* 3:380–390.
- ROSZA, R. 1995. Human impacts on tidal wetlands: history and regulations. Pp. 42–50 in G. D. Dreyer, and W. A. Niering (editors). *Tidal marshes of Long Island Sound: ecology, history and restoration*. Bulletin No. 34. Connecticut College Arboretum, New London, CT.
- ROTENBERRY, J. T., AND J. A. WIENS. 1980. Habitat structure, patchiness, and avian communities in North American steppe vegetation: a multivariate analysis. *Ecology* 61:1228–1250.
- ROTENBERRY, J. T., R. J. COOPER, J. M. WUNDERLE, AND K. G. SMITH. 1995. When and how are populations limited? The roles of insect outbreaks, fire, and other natural perturbations. Pp. 165–171 in T. Martin, and D. Finch (editors). *Ecology and management of neotropical migratory birds, a synthesis and review of critical issues*. Oxford University Press, New York, NY.
- ROTTENBORN, S. 1996. The use of coastal agricultural fields in Virginia as foraging habitat by shorebirds. *Wilson Bulletin* 108:783–796.
- RUDD, R. L. 1953. Notes on maintenance and behavior of shrews in captivity. *Journal of Mammalogy* 34: 118–120.
- RUDD, R. L. 1955. Population variation and hybridization in some California shrews. *Systematic Zoology* 4:21–34.
- RUDDIMAN, W. F. 2001. Earth's climate past and future. W.H. Freeman and Co., New York, NY.
- RYAN, H., H. GIBBONS, J. W. HENDLEY II, AND P. H. STAUFFER. 1999. El Niño sea level rise wreaks havoc in California's San Francisco Bay region. U.S. Geological Survey Fact Sheet 175-99. U.S. Geological Survey, Menlo Park, CA.
- RYDER, O. A. 1986. Species conservation and systematics: the dilemma of subspecies. *Trends in Ecology and Evolution* 1:9–10.
- SAAB, V. 1999. Importance of spatial scale to habitat use by breeding birds in riparian forests: a hierarchical analysis. *Ecological Applications* 9: 135–151.
- SABAT, P. 2000. Birds in marine and saline environments: living in dry habitats. *Revista Chilena de Historia Natural* 73:243–252.
- SABAT, P., AND C. MARTÍNEZ DEL RÍO. 2002. Inter- and intraspecific variation in the use of marine food resources by three *Cinclodes* (Furnariidae, Aves) species: carbon isotopes and osmoregulatory physiology. *Zoology* 105:247–256.
- SÆTHER, B. E., AND Ø. BAKKE. 2000. Avian life history variation and contribution of demographic traits to the population growth rate. *Ecology* 81:642–653.
- SAINTILAN, N., AND R. J. WILLIAMS. 1999. Mangrove transgression into saltmarsh environments in south-east Australia. *Global Ecology and Biogeography* 8:117–124.
- SALTONSTALL, K. 2002. Cryptic invasions by a non-native genotype of the common reed, *Phragmites australis*, into North America. *Proceedings of the National Academy of Sciences* 99:2445–2449.
- SALTONSTALL, K. 2003. Genetic variation among North American populations of *Phragmites australis*: implications for management. *Estuaries* 26:444–451.
- SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD. 1992. Mass emissions reduction strategy for selenium. Oakland, CA.
- SAN FRANCISCO ESTUARY INSTITUTE. 2000. San Francisco Bay area ecorestas v. 1.50b4. San Francisco Estuary Institute, Richmond, CA.
- SAN FRANCISCO ESTUARY INSTITUTE. 2003. Pulse of the estuary: monitoring and managing contamination in the San Francisco Estuary. San Francisco Estuary Institute, Oakland, CA.
- SAN FRANCISCO ESTUARY PROJECT. 1991. Status and trends report on wetlands and related habitats in the San Francisco Estuary. San Francisco Estuary Project, U.S. Environmental Protection Agency, Cooperative Agreement #815406-01-0. Oakland, CA.
- SAN FRANCISCO ESTUARY PROJECT. 1992. State of the estuary: a report on conditions and problems in the San Francisco/Sacramento-San Joaquin delta estuary. Prepared by the Association of Bay Area Governments. Oakland, CA.
- SAS. 2000. SAS/STAT software: changes and enhancements, Release 8.1. SAS Institute Inc., Cary, NC.
- SAUER, J. R., J. E. HINES, AND J. FALLON. 2004. The North American breeding bird survey, results and analysis 1966–2003. Version 2004.1. USGS Patuxent Wildlife Research Center, Laurel, MD.
- SAUER, J. R., J. E. HINES, I. THOMAS, J. FALLON, AND G. GOUGH. 2000. The North American breeding bird survey, results and analysis 1966–1999. Version 98.1. U.S. Geological Survey, Patuxent Wildlife Research Center, Laurel, MD.
- SAUNDERS, D. A., R. J. HOBBS, AND C. R. MARGULES. 1991. Biological consequences of ecosystem fragmentation: a review. *Conservation Biology* 5:8–32.
- SAYCE, K. 1988. Introduced cordgrass, *Spartina alterniflora* Loisel in saltmarshes and tidelands of Willapa Bay, Washington. Report to USDI Fish and Wildlife Service, Willapa National Wildlife Refuge, Cathlamet, WA.
- SCHIEFFER, T. H. 1945. The introduction of *Spartina alterniflora* to Washington with oyster culture. *Leaflets of Western Botany* 4:163–164.
- SCHLEMON, R. J., AND E. L. BEGG. 1973. Late Quaternary evolution of the Sacramento-San Joaquin Delta, California. Pp. 259–266 in *Proceedings of the Ninth Congress of the International Union for Quaternary Research*. International Union for Quaternary Research, Christchurch, NZ.

- SCHLUTER, D., AND J. N. M. SMITH. 1986. Natural selection on beak and body size in the Song Sparrow. *Evolution* 40:221–231.
- SCHMALZER, P. A., AND C. R. HINKLE. 1993. Effects of fire on nutrient concentrations and standing crops in biomass of *J. roemerianus* and *Spartina bakeri* marshes. *Castanea* 58:90–114.
- SCHMIDT-NIELSEN, K., AND Y.-T. KIM. 1964. The effect of salt intake on the size and function of the salt glands in ducks. *Auk* 81:160–172.
- SCHNEIDER, M. F. 2001. Habitat loss, fragmentation and predator impact: spatial implications for prey conservation. *Journal of Applied Ecology* 38:720–735.
- SCHOELLHAMER, D. H., G. G. SHELLENBARGER, N. K. GANJU, J. A. DAVIS, AND L. J. MCKEE. 2003. Sediment dynamics drive contaminant dynamics. Pp. 21–26 in *Pulse of the estuary: monitoring and managing contamination in the San Francisco Estuary*. San Francisco Estuary Institute, Oakland, CA.
- SCHULZE-HAGEN, K., B. LEISTER, H. M. SCHÄFER, AND V. SCHMIDT. 1999. The breeding system of the Aquatic Warbler *Acrocephalus paludicola*—a review of new results. *Vogelwelt* 120:87–96.
- SCHWARTZENBACH, R. P., P. M. GSCHEND, AND D. M. IMBODEN. 2003. Partitioning to living media—bioaccumulation and baseline. Chapter 10 in *Environmental organic chemistry*. John Wiley and Sons, Hoboken, NJ.
- SCHWARZBACH, S., AND T. ADELSBACH. 2002. Assessment of ecological and human health impacts of mercury in the bay-salta watershed, Subtask 3B: field assessment of avian mercury exposure in the bay-delta ecosystem. Final Report to the CALFED Bay-Delta Mercury Project. CALFED Bay-Delta Authority, Sacramento, CA.
- SCHWARZBACH, S. E., J. D. ALBERTSON, AND C. M. THOMAS. 2006. Effects of predation, flooding, and contamination on reproductive success of California Clapper Rails (*Rallus longirostris obsoletus*) in San Francisco Bay. *Auk* 123:45–60.
- SCHWARZBACH, S. E., J. D. HENDERSON, C. M. THOMAS, AND J. D. ALBERTSON. 2001. Organochlorine concentrations and eggshell thickness in failed eggs of the California Clapper Rail from South San Francisco Bay. *Condor* 103:620–624.
- SCOLLON, D. B. 1993. Spatial analysis of the tidal marsh habitat of the Suisun Song Sparrow. M.A. thesis, San Francisco State University, San Francisco, CA.
- SCOTT, D. B. 1980. Morphological changes in an estuary: a historical and stratigraphical comparison. Pp. 199–205 in S. B. McCann (editor). *The coastline of Canada*. Geological Survey of Canada, Paper 80-10. Minister of Supply and Services Canada, Ottawa, ON, Canada.
- SCOTT, D. M., R. E. LEMON, AND J. A. DARLEY. 1987. Relaying interval after nest failure in Gray Catbirds and Northern Cardinals. *Wilson Bulletin* 99:708–712.
- SCOTT, M. L., S. K. SKAGEN, AND M. F. MERIGLIANO. 2003. Relating geomorphic change and grazing to avian communities in riparian forest. *Conservation Biology* 17:284–296.
- SEARCY, W. A., AND K. YASUKAWA. 1989. Alternative models of territorial polygyny in birds. *American Naturalist* 134:323–343.
- SEARCY, W. A., AND K. YASUKAWA. 1995. Polygyny and sexual selection in Red-winged Blackbirds. Princeton University Press, Princeton, NJ.
- SEARCY, W. A., K. YASUKAWA, AND S. LANYON. 1999. Evolution of polygyny in the ancestors of Red-winged Blackbirds. *Auk* 116:5–19.
- SEIGEL, R. A. 1980. Predation by raccoons on diamondback terrapins, *Malaclemys terrapin tequesta*. *Journal of Herpetology* 14:87–89.
- SEIGEL, R. A. 1993. Apparent long-term decline in the diamondback terrapin populations at the Kennedy Space Center, Florida. *Herpetological Review* 24:102–103.
- SEIGEL, R. A. 1994. Parameters of two populations of diamondback terrapins (*Malaclemys terrapin*) on the Atlantic coast of Florida. Pp. 77–87 in R. A. Seigel, L. E. Hunt, J. L. Knight, L. Malaret, and N. L. Zuschlag (editors). *Vertebrate ecology and systematics—a tribute to Henry S. Fitch*. Museum of Natural History, Special Publication 10, University of Kansas, Lawrence, KS.
- SEIGEL, R. A., AND J. W. GIBBONS. 1995. Workshop on the ecology, status, and management of the diamondback terrapin (*Malaclemys terrapin*), final results and recommendations. *Chelonian Conservation and Biology* 1:240–243.
- SEIGEL, S. W., AND P. A. M. BACHAND. 2002. Feasibility analysis of south bay salt pond restoration, San Francisco estuary, California. *Wetlands and Water Resources*, San Rafael, CA.
- SELISKAR, D. M., AND J. L. GALLAGHER. 1983. The ecology of tidal marshes of the Pacific Northwest coast: a community profile. Biological Services FWS/OBS-82-32. USDI Fish and Wildlife Service, Washington, DC.
- SEUTIN, G., AND J. P. SIMON. 1988. Protein and enzyme uniformity in a new, isolated population of the Sharp-tailed Sparrow. *Biochemical Systematics and Ecology* 16:233–236.
- SHACKLETON, N. J., AND N. D. OPDYKE. 1976. Oxygen isotope and palaeomagnetic stratigraphy of Pacific core V. 28–238: late Pliocene to latest Pleistocene. In R. M. Cline, and J. D. Hays (editors). *Investigations of late Quaternary paleoceanography and paleoclimatology*. Geological Society of America Memoirs 145: 449–64.
- SHAFFER, C. L. 1990. *Nature reserve: island theory and conservation practice*. Smithsonian Institution Press, Washington, DC.
- SHAFFER, J. A., C. M. GOLDADE, M. F. DINKINS, D. H. JOHNSON, L. D. IGL, AND B. R. EULISS. 2003. Brown-headed Cowbirds in grasslands: their habitats, hosts, and response to management. *Prairie Naturalist* 35:145–186.
- SHARP, H. F. 1967. Food ecology of the rice rat, *Oryzomys palustris* (Harlan) in a Georgian salt marsh. *Journal of Mammalogy* 48:557–563.
- SHAW, J., R. B. TAYLOR, D. L. FORBES, M.-H. RUZ, AND S. SOLOMON. 1994. Sensitivity of the Canadian coast to sea-level rise. P. 2,377 in P. G. Wells, and P. J. Ricketts (editors). *Coastal zone Canada '94*, cooperation in the coastal zone. Coastal Zone Canada Association, Bedford Institute of Oceanography, Dartmouth, NS, Canada.

- SHELLHAMMER, H. S. 1967. Cytotaxonomic studies of the harvest mice of the San Francisco Bay region. *Journal of Mammalogy* 48:549–556.
- SHELLHAMMER, H. S. 2000. Salt marsh wandering shrew. Pp. 131–233 in P. R. Olofson (editor). *Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife*. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- SHELLHAMMER, H. S., R. JACKSON, W. DAVILLA, A. M. GILROY, H. T. HARVEY, AND L. SIMONS. 1982. Habitat preferences of salt marsh harvest mice (*Reithrodontomys raviventris*). *Wasmann Journal of Biology* 40:102–114.
- SHELDIS, G. F., AND A. C. WILSON. 1987. Calibration of mitochondrial DNA evolution in geese. *Journal of Molecular Evolution* 24:212–217.
- SHISLER, J., AND F. FERRIGNO. 1987. The impacts of water management for mosquito control on waterfowl populations in New Jersey. Pp. 268–282 in W. R. Whitman, and W. H. Meredith (editors). *Waterfowl and wetlands symposium: proceedings of a symposium on waterfowl and wetlands management in the coastal zone of the Atlantic Flyway*. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover, DE.
- SHISLER, J., AND T. SCHULZE. 1976. Some aspects of open marsh water management procedures on Clapper Rail production. *Proceedings of the Northeast Fish and Wildlife Conference* 33:101–104.
- SHRIVER, W. G. 2002. The conservation ecology of salt marsh birds in New England. Ph.D. dissertation, State University of New York, Syracuse, NY.
- SHRIVER, W. G., AND J. P. GIBBS. 2004. Projected effects of sea-level rise on the population viability of Seaside Sparrows (*Ammodramus maritimus*). Pp. 397–401 in H. R. Akçakaya, M. A. Burgman, O. Kindvall, C. C. Wood, P. Sjögren-Gulve, J. S. Hatfield, and M. A. McCarthy (editors). *Species conservation and management: case studies*. Oxford University Press, Oxford, UK.
- SHRIVER, W. G., T. P. HODGMAN, J. P. GIBBS, AND P. D. VICKERY. 2004. Landscape context influences saltmarsh bird diversity and area requirements in New England. *Biological Conservation* 119: 545–553.
- SHUQING A. 2003. Ecological engineering of wetlands. Chemical Industry Press, Beijing, China. (in Chinese).
- SIBLEY, C. G. 1955. The responses of salt-marsh birds to extremely high tides. *Condor* 57:241–242.
- SIBLEY, C. G., AND B. L. MONROE, JR. 1990. *Distribution and taxonomy of birds of the world*. Yale University Press, New Haven, CT.
- SIBLEY, D. 2000. The Sibley guide to birds. Knopf, New York, NY.
- SILLIMAN, B. R., AND M. D. BERTNESS. 2004. Shoreline development drives invasion of *Phragmites australis* and the loss of plant diversity on New England salt marshes. *Conservation Biology* 18:1424–1434.
- SIMENSTAD, C. A., M. DETHIER, C. LEVINGS, AND D. HAY. 1997. The land-margin interface of coastal temperate rain forest ecosystems: shaping the nature of coastal interactions. Pp. 149–187 in P. Schoonmaker, B. von Hagen, and E. Wolf (editors). *The rain forests of home: profile of a North American bioregion*. Ecotrust/Interain Pacific, Portland, Oregon, USA and Island Press, Covelo, CA.
- SIU, W. H. L., C. L. H. HUNG, H. L. WONG, B. J. RICHARDSON, AND P. K. S. LAM. 2003. Exposure and time dependent DNA strand breakage in hepatopancreas of green-lipped mussels (*Perna viridis*) exposed to Aroclor 1254, and mixtures of B[a]P and Aroclor 1254. *Marine Pollution Bulletin* 46: 1285–1293.
- SKULASON, S., AND T. B. SMITH. 1995. Resource polymorphisms in vertebrates. *Trends in Ecology and Evolution* 10:366–370.
- SKUTCH, A. F. 1949. Do tropical birds rear as many young as they can nourish? *Ibis* 91:430–455.
- SMITH C. T., R. J. NELSON, C. C. WOOD, AND B. F. KOOP. 2001. Glacial biogeography of North American coho salmon (*Oncorhynchus kisutch*). *Molecular Ecology* 10:2775–2785.
- SMITH, J. I. 1993. Environmental influence on the ontogeny, allometry, and behavior of the Song Sparrow (*Melospiza melodia*). Ph.D. dissertation, University of California, Berkeley, CA.
- SMITH, J. N. M., M. J. TAFT, C. M. ROGERS, P. ARCESE, L. F. KELLER, A. L. E. V. CASSIDY, AND W. M. HOCHACHKA. 1996. A metapopulation approach to the population biology of the Song Sparrow *Melospiza melodia*. *Ibis* 138:120–128.
- SMITH, J. N. M., AND R. ZACH. 1979. Heritability of some morphological characters in a Song Sparrow population. *Evolution* 33:460–467.
- SMITH, L. M., J. A. KADLEC, AND P. V. FONNESBECK. 1984. Effects of prescribed burning on nutritive quality of marsh plants in Utah. *Journal of Wildlife Management* 48:285–288.
- SMITH, T. B., AND R. K. WAYNE. 1996. *Molecular genetic approaches in conservation*. Oxford University Press, New York, NY.
- SMITH, T. B., R. K. WAYNE, D. J. GIRMAN, AND M. W. BRUFORD. 1997. A role for ecotones in generating rainforest biodiversity. *Science* 276:1855–1857.
- SMITH, T. J., III, AND W. E. ODUM. 1981. The effects of grazing by Snow Geese on coastal salt marshes. *Ecology* 62:98–106.
- SNYDER, R. D., AND P. J. LACHMANN. 1989. Thiol involvement in the inhibition of DNA repair by metals in mammalian cells. *Molecular Toxicology* 2: 117–128.
- SOBCZAK, W. V., J. E. CLOERN, A. D. JASSBY, AND A. B. MULLER-SOLGER. 2002. Bioavailability of organic matter in a highly disturbed estuary: the role of detrital and algal resources. *Proceedings of the National Academy of Sciences of the United States of America* 99:8101–8105.
- SOULÉ, M. E., D. T. BOLGER, A. C. ALBERTS, J. WRIGHT, M. SORICE, AND S. HILL. 1988. Reconstructed dynamics of rapid extinctions of chaparral requiring birds in urban habitat islands. *Conservation Biology* 2: 75–92.
- SPAANS, H. 1994. The breeding birds of the Volkrech-Zioneer during the first five years after embankment. *Limosa* 67:15–26.

- SPEAKMAN, J. 1997. Doubly labeled water—theory and practice. Kluwer Academic Publishers, New York, NY.
- SPEAR, L. B., S. B. TERRILL, C. LENIHAN, AND P. DELEVORYAS. 1999. Effects of temporal and environmental factors on the probability of detecting California Black Rails. *Journal of Field Ornithology* 70:465–480.
- STARTRATT, S. W. 2004. Diatoms as indicators of late Holocene fresh water flow variation in the San Francisco Bay estuary, central California, U.S.A. Pp. 371–397 in M. Poulin (editor). Seventeenth International Diatom Symposium. Biopress Ltd., Bristol, UK.
- STATAcorp. 2003. Intercooled stata 8.0 for Windows, College Station, TX.
- STATSOFT, INC. 2003. STATISTICA. Version 6. <www.statsoft.com> (3 March 2006).
- STEBBINS, R. C. 1954. Amphibians and reptiles of western North America. McGraw Hill, New York, NY.
- STEERE, J. T., AND N. SCHAEFER. 2001. Restoring the estuary: an implementation strategy for the San Francisco Bay Joint Venture. San Francisco Bay Joint Venture, Oakland, CA.
- STEPHENS, S. E., D. N. KOONS, J. J. ROTELLA, AND D. W. WILLEY. 2004. Effects of habitat fragmentation on avian nesting success: a review of the evidence at multiple spatial scales. *Biological Conservation* 115:101–110.
- STEVENSON, J. C., J. ROOTH, M. S. KEARNEY, AND K. SUNDBERG. 2001. The health and long term stability of natural and restored marshes in Chesapeake Bay. Pp. 709–735 in M. P. Weinstein, and D. A. Kreeger (editors). Concepts and controversies in tidal marsh ecology. Kluwer Academic Press, Dordrecht, The Netherlands.
- STEVENSON, J. O., AND L. H. MEITZEN. 1946. Behavior and food habits of Sennett's White-tailed Hawk in Texas. *Wilson Bulletin* 58:198–205.
- STEWART, R. E. 1951. Clapper Rail populations of the middle Atlantic states. *Transactions of the North American Wildlife Conference* 16:421–430.
- STODDART, D. R., D. J. REED, AND J. R. FRENCH. 1989. Understanding salt-marsh accretion, Scott Head Island, Norfolk, England. *Estuaries* 12:228–236.
- STOREY, A. E. 1978. Adaptations in Common Terns and Forster's Terns for nesting in the salt marsh. Ph.D. dissertation, Rutgers University, Newark, NJ.
- STOREY, A. E. 1987. Adaptations for marsh nesting in Common and Forster's terns. *Canadian Journal of Zoology* 65:1417–1420.
- STOTZ, D. E., J. W. FITZPATRICK, T. A. PARKER III, AND D. K. MOKOVITS. 1996. Neotropical birds: ecology and conservation. University of Chicago Press, Chicago, IL.
- STOUT, J. P. 1984. The ecology of irregularly flooded salt marshes of the northeastern Gulf of Mexico: a community profile. USDI Fish and Wildlife Service, Biological Report 85. Washington, DC.
- STRALBERG, D., V. TONILO, G. PAGE, AND L. STENZEL. 2004. Potential Impacts of non-native *Spartina* spread on shorebird populations in south San Francisco Bay. February 2004 report to California Coastal Conservancy (contract #02-212). Point Reyes Bird Observatory Conservation Science, Stinson Beach, CA.
- STRALBERG, D., N. WARNOCK, N. NUR, H. SPAUTZ, AND G. W. PAGE. 2005. Building a habitat conversion model for San Francisco Bay wetlands: a multi-species approach for integrating GIS and field data. Pp. 997–129 in C. J. Ralph, and T. D. Rich (editors). Bird conservation implementation and integration in the Americas: proceedings of the third international Partners in Flight conference. Volume 2. USDA Forest Service General Technical Report PSW-GTR-191. USDA Forest Service, Pacific Southwest Research Station, Albany, CA.
- STREHL, C. E., AND J. WHITE. 1986. Effects of superabundant food on breeding success and behavior of the Red-winged Blackbird. *Oecologia* 70:178–186.
- STUMPF, R. P., AND J. W. HAINES. 1998. Variations in tidal level in the Gulf of Mexico and implications for tidal wetlands. *Estuarine, Coastal and Shelf Science* 46:165–173.
- SUGG, D. W., R. K. CHESSEY, J. A. BROOKS, AND B. T. GRASMAN. 1995. The association of DNA damage to concentrations of mercury and radionuclides in largemouth bass. *Environmental Toxicology and Chemistry* 14:661–668.
- SWIFT, B. L. 1989. Avian breeding habitats in Hudson River tidal marshes. Final Report to the Hudson River Foundation for Science and Environmental Research, Inc. New York State Department of Environmental Conservation, Albany, NY.
- SYKES, G. 1937. The Colorado River delta. American Geographical Society Special Publication 19, New York, NY.
- TABER, W. 1968a. *Passerculus sandwichensis beldingi* (Ridgway) Belding's Savannah Sparrow. Pp. 714–717 in A. C. Bent (editor). Life histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows, and allies. Dover Publications, Inc., New York, NY.
- TABER, W. 1968b. *Passerculus sandwichensis rostratus* (Cassin) Large-billed Savannah Sparrow. Pp. 722–724 in A. C. Bent (editor). Life histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows, and allies. Dover Publications, Inc., New York, NY.
- TAFT, A. C. 1944. Diamond-back terrapin introduced into California. *California Fish and Game* 30: 101–102.
- TAILLANDIER, J. 1993. The breeding of the Fan-tailed Warbler (*Cisticola juncidis*) in salt marsh meadows. (Guerande Loire-Atlantique, western France). *Alauda* 61:39–51.
- TAKEKAWA, J. 1993. The California Clapper Rail: turning the tide? *Tideline* 13:1–3, 11.
- TAKEKAWA, J. Y., C. T. LU, AND R. T. PRATT. 2001. Avian communities in baylands and artificial salt evaporation ponds of the San Francisco Bay estuary. *Hydrobiologia* 466:317–328.
- TAKEKAWA, J. Y., G. W. PAGE, J. M. ALEXANDER, AND D. R. BECKER. 2000. Waterfowl and shorebirds of the San Francisco Bay estuary. Pp. 309–316 in P. R. Olofson (editor). Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish

- and wildlife. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- TARR, C. L., AND R. C. FLEISCHER. 1993. Mitochondrial DNA variation and evolutionary relationships in the amakihi complex. *Auk* 110:825–831.
- TAYLOR, D. L. 1983. Fire management and the Cape Sable Sparrow. Pp. 147–152 in T. L. Quay, J. B. Funderburg, Jr., D. S. Lee, E. F. Potter, and C. S. Robbins (editors). *The Seaside Sparrow: its biology and management. Occasional Papers of the North Carolina Biological Survey 1983–5*. Raleigh, NC.
- TAYLOR, R. 1998. *Rails: a guide to the rails, crakes, gallinules and coots of the world*. Princeton University Press, New Haven, CT.
- TEAL, J. M. 1986. The ecology of regularly flooded salt marshes of New England: a community profile. USDI Fish and Wildlife Service, Biological Report 85 (7.4). Washington, DC.
- TEAR, T. H., J. M. SCOTT, P. H. HAYWARD, AND B. GRIFFITH. 1995. Recovery plans and the Endangered Species Act: are criticisms supported by data? *Conservation Biology* 9:182–195.
- TEMMERMAN, S., G. GOVERS, P. MEIRE, AND S. WARTEL. 2003. Modeling long-term tidal marsh growth under changing tidal conditions and suspended sediment concentrations, Scheldt estuary, Belgium. *Marine Geology* 193:151–169.
- TERRES, J. K. 1991. *The Audubon Society encyclopedia of North American birds*. Wings Books, Avenel, NJ.
- TERRILL, S. 2000. Salt Marsh Common Yellowthroat *Geothlypis trichas sinuosa*. Pp. 366–369 in P. Olofson (editor). *Goals project 2000. Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife. San Francisco Bay Area Wetlands Ecosystem Goals Project*. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.
- TEWES, M. E. 1984. Opportunistic feeding by White-tailed Hawks at prescribed burns. *Wilson Bulletin* 96:135–136.
- TEWKSBURY, J. J., A. E. BLACK, N. NUR, V. A. SAAB, B. D. LOGAN, AND D. S. DOBKIN. 2002. Effects of anthropogenic fragmentation and livestock grazing on western riparian bird communities. *Studies in Avian Biology* 25:158–202.
- THAELER, C. J. 1961. Variation in some salt marsh populations of *Microtus californicus*. University of California Publications in Zoology 60:67–94.
- THANNHEISER, D. 1981. The coastal vegetation of eastern Canada. *The Munster Series of Geographical Studies* 10:1–202.
- THE CONSERVATION FOUNDATION. 1988. Protecting America's wetlands: an action agenda. National Wetlands Policy Forum, Conservation Foundation, Washington, DC.
- THEODORAKIS, C. W., S. J. D'SURNEY, AND L. R. SHUGART. 1994. Detection of genotoxic insults as DNA strand breaks in fish blood cells by agarose gel electrophoresis. *Environmental Toxicology and Chemistry* 13:1023–1031.
- THONON, E., K. HAWKINS, E. BERMINGHAM, R. E. RICKLEFS, AND N. I. MUNDY. 2001. The molecular basis of an avian plumage polymorphism in the wild: a melanocortin-1-receptor point mutation is perfectly associated with the melanic plumage morph of the Bananaquit, *Coereba flaveola*. *Current Biology* 11:550–557.
- THOMAS, D. H., AND A. P. ROBIN. 1977. Comparative studies of thermoregulatory and osmoregulatory behaviour and physiology of five species of sandgrouse (Aves: Pteroclidae) in Morocco. *Journal of Zoology* 183:229–249.
- THOMAS, E., T. GAPOTCHENKO, J. C. VAREKAMP, E. L. MECRAY, AND M. R. BUCHHOLTZ TEN BRINK. 2000. Benthic Foraminifera and environmental changes in Long Island Sound. *Journal of Coastal Research* 16:641–655.
- THOMAS, M. L. H. 1983. Saltmarsh systems. Pp. 107–118 in M. L. H. Thomas (editor). *Marine and coastal systems of the Quoddy Region, New Brunswick*. Government of Canada-Fisheries and Oceans, Scientific Information and Publications Branch, Ottawa, ON, Canada.
- THOMPSON, R. S., C. WHITLOCK, P. J. BARTLEIN, S. P. HARRISON, AND W. G. SPAULDING. 1993. Climatic changes in the western United States since 18,000 yr. B.P. Pp. 468–513 in H. E. Wright, Jr., J. E. Kutzbach, T. Webb III, W. F. Ruddiman, F. A. Street-Perrott, and P. J. Bartlein (editors). *Global climates since the last glacial maxima*. University of Minnesota Press, Minneapolis, MN.
- TILTON, M. A. 1987. Foraging habitats and behavior of the Red-winged Blackbird in a Rhode Island *Spartina alterniflora* marsh. M.S. thesis, University of Rhode Island, Kingston, RI.
- TINER, R. W., JR. 1984. Wetlands of the United States: current status and recent trends. National Wetlands Inventory, USDI Fish and Wildlife Service, Washington, DC.
- TITUS, J. G. (EDITOR). 1988. Greenhouse effects, sea level rise and coastal wetlands. Environmental Protection Agency 230-05-86-013. U.S. Government Printing Office, Washington, DC.
- TITUS, J. G. 1991. Greenhouse effect and coastal wetland policy: how Americans could abandon an area the size of Massachusetts. *Environmental Management* 15:39–58.
- TITUS, J. G., R. A. PARK, S. P. LEATHERMAN, J. R. WEGGEL, M. S. GREENE, P. W. MAUSEL, M. S. TREHAN, S. BROWN, C. GRANT, AND G. W. YOHE. 1991. Greenhouse effect and sea level rise: loss of land and the cost of holding back the sea. *Coastal Management* 19:171–204.
- TOWNSEND, C. W. 1912. Notes on the summer birds of the St. John Valley, New Brunswick. *Auk* 29:16–23.
- TRENHAILE, A. S. 1997. *Coastal dynamics and landforms*. Clarendon Press, Oxford, UK.
- TROMBULAK, S. C., AND C. A. FRISSELL. 2000. Review of the ecological effects of roads on terrestrial and aquatic communities. *Conservation Biology* 14:18–30.
- TRULIO, L. A., AND J. EVENS. 2000. California Black Rail *Laterallus jamaicensis coturniculus*. Pp. 341–345 in P. Olofson (editor). *Goals project 2000. Baylands ecosystem species and community profiles: life histories and environmental requirements of key plants, fish and wildlife. San Francisco Bay Area Wetlands Ecosystem Goals Project*. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.

- TUCKER, A. D., N. N. FITZSIMMONS, AND J. W. GIBBONS. 1995. Resource partitioning by the estuarine turtle *Malaclemys terrapin*: trophic, spatial, and temporal foraging constraints. *Herpetologica* 51:167-181.
- TUCKER, A. D., J. W. GIBBONS, AND J. L. GREENE. 2003. Estimates of adult survival and migration for diamondback terrapins: conservation insight from local extirpation within a metapopulation. *Canadian Journal of Zoology* 79:2199-2209.
- TUFTS, R. W. 1986. Birds of Nova Scotia. Nimbus Publishing and the Nova Scotia Museum, Halifax, NS, Canada.
- TURNER, M. G. 1987. Effects of grazing by feral horses, clipping, trampling, and burning on a Georgia salt marsh. *Estuaries* 10:54-60.
- U.S. ARMY CORPS OF ENGINEERS. 1916a. Tactical map, Cape Fortuna quadrangle, California, grid zone G. 1:62,500. Engineer Reproduction Plant, U.S. Army, Washington, DC.
- U.S. ARMY CORPS OF ENGINEERS. 1916b. Tactical map, Rohnerville quadrangle, California. 1:62,500. Engineer Reproduction Plant, Fort Humphreys, Washington, DC.
- U.S. ARMY CORPS OF ENGINEERS. 1987. Beneficial uses of dredged material. CECW-EH-D. Engineer Manual. EM 110-2-5026. Washington, DC.
- U.S. CENSUS BUREAU. 2000. Census 2000. <<http://www.census.gov>> (6 June 2006).
- U.S. COAST AND GEODETIC SURVEY. 1967a. Bathymetric map, coast and geodetic survey 1206N-15, Santa Barbara to Huntington Beach, California. 1:250,000. U.S. Department of Commerce, Washington DC.
- U.S. COAST AND GEODETIC SURVEY. 1967b. Bathymetric map, coast and geodetic survey 1206N-16, Huntington Beach, California to Punta Sal Si Puedes, Mexico. 1:250,000. U.S. Department of Commerce, Washington DC.
- U.S. COAST AND GEODETIC SURVEY. 1967c. Bathymetric map, coast and geodetic survey 1306N-19, Southwest of Santa Rosa Island, California. 1:250,000. U.S. Department of Commerce, Washington DC.
- U.S. COAST AND GEODETIC SURVEY. 1967d. Bathymetric map, coast and geodetic survey 1306N-20 Cape San Martin to Point Concepcion, California. 1:250,000. U.S. Department of Commerce, Washington DC.
- U.S. COAST AND GEODETIC SURVEY. 1969. Bathymetric map, coast and geodetic survey 1308N-12 Point Saint George, Oregon to Point Delgada, California. 1:250,000. U.S. Department of Commerce, Washington DC.
- U.S. DEPARTMENT OF AGRICULTURE. 2003. Plant profile for *Salicornia virginica*. <http://plants.usda.gov/cgi_bin/plant_profile.cgi?symbol=SAVI> (6 June 2006).
- U.S. ENVIRONMENTAL PROTECTION AGENCY. 1991. Registration eligibility decision: methoprene. U.S. Environmental Protection Agency, Office of Pesticides and Toxic Substances, Washington, DC.
- U.S. ENVIRONMENTAL PROTECTION AGENCY. 1998. An SAB report: ecological impacts and evaluation criteria for the use of structures in marsh management. U.S. Environmental Protection Agency. EPA-SAB-EPEC-98-003. Washington, DC.
- U.S. ENVIRONMENTAL PROTECTION AGENCY. 1998. Reregistration eligibility decision: *Bacillus thuringiensis*. U.S. Environmental Protection Agency, Office of Pesticide Programs, Washington, DC.
- U.S. ENVIRONMENTAL PROTECTION AGENCY. 2003. Joint statement on mosquito control in the United States from the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control and Prevention (CDC). <<http://www.epa.gov/pesticides/health/mosquitoes/mosquitojoint.htm>> (6 June 2006).
- U.S. GEOLOGICAL SURVEY. 1996. San Francisco Bay—1985 habitat. U.S. Geological Survey, Midcontinent Ecological Science Center, Fort Collins, CO.
- U.S. GEOLOGICAL SURVEY. 2003. West Nile virus. U.S. Geological Survey, National Wildlife Health Center. <http://www.nwhc.usgs.gov/disease_information/west_nile_virus/index.jsp> (6 June 2006).
- UETZ, P. 2005. The EMBL reptile data base. <<http://www.embl-heidelberg.de/~uetz/LivingReptiles.html>> (17 January 2006).
- URIEN, C. M., L. R. MARTINIS, AND I. R. MARTINIS. 1980. Modelos desposicionales en la plataforma continental de Rio Grande du Sul, Uruguay, e Buenos Aires. Notas Tecnicas DECO-UFRGS 2:13-85.
- USDI FISH AND WILDLIFE SERVICE. 1979. Light-footed Clapper Rail recovery plan. USDI Fish and Wildlife Service, Portland, OR.
- USDI FISH AND WILDLIFE SERVICE. 1992. Status and trends report on wildlife of the San Francisco estuary. Prepared under EPA Cooperative Agreement CE-009519 by the USDI Fish and Wildlife Service, Sacramento Fish and Wildlife Enhancement Field Office, Sacramento, CA.
- VALIELA, I., J. McCLELLAND, J. HAUXWELL, P. J. BEHR, D. HERSH, AND K. FOREMAN. 1997. Macroalgal blooms in shallow estuaries: controls and ecophysiological and ecosystem consequences. *Limnology and Oceanography* 42:1105-1118.
- VAN HORNE, B. 1983. Density as a misleading indicator of habitat quality. *Journal of Wildlife Management* 47:893-901.
- VAN PROOSDIJ, D., J. OLLERHEAD, AND R. G. D. DAVIDSON-ARNOTT. 2000. Controls on suspended sediment deposition over single tidal cycles in a macrotidal saltmarsh, Bay of Fundy, Canada. Pp. 43-57 in K. Pye, and J. R. L. Allen (editors). *Coastal and estuarine environments: sedimentology, geomorphology, and geoarchaeology*. Geological Society of London, London, UK.
- VAN PROOSDIJ, D., J. OLLERHEAD, R. G. D. DAVIDSON-ARNOTT, AND L. SCHOSTAK. 1999. Allen Creek Marsh, Bay of Fundy: a macrotidal coastal saltmarsh. *Canadian Landform Examples* 37. Canadian Geographer 43:316-322.
- VAN ZOOST, J. R. 1970. The ecology and waterfowl utilization of the John Lusby National Wildlife Area. M.S. thesis, Acadia University, Wolfville, NS, Canada.
- VASQUEZ, E. A., E. P. GLENN, J. J. BROWN, G. R. GUNTENSPERGEN, AND S. G. NELSON. 2005. Growth characteristics and salinity tolerance underlying

- the cryptic invasion of North American salt marshes by an introduced haplotype of the common reed *Phragmites australis* (Poaceae). *Marine Ecology Progress Series* 298:1-8.
- VER PLANCK, W. E. 1958. Salt in California. *California Division of Mines Bulletin* 175. California Division of Mines, San Francisco, CA.
- VERNER, J. 1965. Breeding biology of the Long-billed Marsh Wren. *Condor* 67:6-30.
- VERNER, J., AND M. WILLSON. 1966. The influence of habitats on mating systems of North American passerine birds. *Ecology* 47:143-147.
- VICKERY, P. D. 1996. Grasshopper Sparrow (*Ammodramus savannarum*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 239. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- VON BLOEKER, J. C., JR. 1932. Three new mammal species from salt marsh areas in southern California. *Proceedings of the Biological Society of Washington* 45:131-138.
- VON BLOEKER, J. C., JR. 1937. Four new rodents from Monterey County, California. *Proceedings of the Biological Society of Washington* 50:153-157.
- VON HAARTMAN, L. 1969. Nest-site and evolution of polygamy in European passerine birds. *Ornis Fennica* 46:1-12.
- WAHRHAFTIG, C., AND J. H. BIRMAN. 1965. The Quaternary of the Pacific mountain system in California. Pp. 299-331 in H. E. Wright, Jr., and D. G. Frey (editors). *The Quaternary of the United States*. Princeton University Press, Princeton, NJ.
- WALBECK, D. 1989. Use of open marsh water management ponds by ducks, wading bird, and shorebirds during late summer and fall. M.S. thesis, Frostburg State University, Frostburg, MD.
- WALTER, H. S. 2004. The mismeasure of islands: implications for biogeographical theory and the conservation of nature. *Journal of Biogeography* 31:177-197.
- WALTERS, J. R. 1998. The ecological basis of avian sensitivity to habitat fragmentation. Pp. 181-192 in J. M. Marzluff, and R. Sallabanks (editors). *Avian conservation*. Island Press, Washington, DC.
- WALTERS, J. R., S. R. BEISSINGER, J. W. FITZPATRICK, R. GREENBERG, J. D. NICHOLS, H. R. PULLIAM, AND D. W. WINKLER. 2000. The AOU Conservation Committee review of the biology, status, and management of Cape Sable Seaside Sparrows: final report. *Auk* 117:1093-1115.
- WALTERS, M. J. 1992. *A shadow and a song: the struggle to save an endangered species*. Chelsea Green Publishing Company, Post Mills, VT.
- WALTON, B. J. 1978. The status of the Salt Marsh Song Sparrows of the San Francisco Bay system, 1974-1976. M.A. thesis, San Jose State University, San Jose, CA.
- WANG, X., S. VAN DER KAARS, P. KERSHAW, M. BIRD, AND F. JANSEN. 1999. A record of fire, vegetation and climate through the last three glacial cycles from Lombok Ridge Core G6-4, eastern Indian Ocean, Indonesia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 147:241-256.
- WANKET, J. A. 2002. Late Quaternary vegetation and climate of the Klamath Mountains. Ph.D. dissertation, University of California, Berkeley, CA.
- WARD, D. W., AND J. BURGER. 1980. Survival of Herring Gull and domestic chicken embryos after simulated flooding. *Condor* 82:142-148.
- WARNOCK, N., G. W. PAGE, T. D. RUHLEN, N. NUR, J. Y. TAKEKAWA, AND J. T. HANSON. 2002. Management and conservation of San Francisco Bay salt ponds: effects of pond salinity, area, tide, and season on Pacific Flyway waterbirds. *Waterbirds* 25 (Special Publication 2):79-92.
- WARREN, R. S., P. E. FELL, R. ROZSA, A. H. BRAWLEY, A. C. ORSTED, E. T. OLSON, V. SWAMY, AND W. A. NIERING. 2002. Saltmarsh restoration in Connecticut: 20 years of science and management. *Restoration Ecology* 10:497-513.
- WARREN, R. S., AND W. A. NIERING. 1993. Vegetation change on a northeast tidal marsh: interaction of sea-level rise and marsh accretion. *Ecology* 74: 96-103.
- WARRICK, R. A., E. BARROW, AND T. M. L. WIGLEY (EDITORS). 1993. *Climate and sea level change: observations, projections, and implications*. Cambridge University Press, Cambridge, UK.
- WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES. 1998. *Our changing nature: natural resource trends in Washington State*. Washington State Department of Natural Resources, Olympia, WA.
- WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES. 2000. *Changing our water ways: trends in Washington's water systems*. Washington State Department of Natural Resources, Olympia, WA.
- WATSON, E. B. 2002. Sediment accretion and tidal marsh formation at a Santa Clara valley tidal marsh. M.A. thesis, University of California, Berkeley, CA.
- WEBER, L. M., AND S. M. HAIG. 1996. Shorebird use of South Carolina managed and natural coastal wetlands. *Journal of Wildlife Management* 60:73-82.
- WEBSTER, C. G. 1964. Fall foods of Soras from habitats in Connecticut. *Journal of Wildlife Management* 28:163-165.
- WEBSTER, W. D., AND J. K. JONES, JR. 1982. *Reithrodontomys megalotis*. *Mammalian Species* 167:1-5.
- WEBSTER, W. M., J. F. PARRELL, AND W. C. BIGGS, JR. 1985. *The mammals of the Carolinas, Virginia, and Maryland*. University of North Carolina Press, Chapel Hill, NC.
- WEINSTEIN, M. P., AND J. H. BALLETTO. 1999. Does the common reed, *Phragmites australis* affect essential fish habitat? *Estuaries* 22:63-72.
- WEINSTEIN, M. P., J. R. KEOUGH, G. R. GUNTENSPERGEN, AND S. Y. LITVIN. 2003. *Phragmites australis*: a sheep in wolf's clothing. Proceedings from the technical forum and workshop. New Jersey Sea Grant Publication NJSG-03-516. Vineland, NJ.
- WEINSTEIN, M. P., AND D. A. KREEGER (EDITORS). 2000. *Concepts and controversies in tidal marsh ecology*. Kluwer Academic Publishers, Dordrecht, The Netherlands.
- WELLER, M. W. 1994. Bird-habitat relationships in Texas estuarine marsh during summer. *Wetlands* 14:293-300.
- WELLS, E. D., AND H. E. HIRVONEN. 1988. Wetlands of Atlantic Canada. Pp. 249-303 in National Wetlands Working Group. *Wetlands of Canada. Sustainable*

- Development Branch, Environment Canada, and Polyscience Publications Inc., Ottawa, ON, Canada.
- WELTER, W. A. 1935. The natural history of the Long-billed Marsh Wren. *Wilson Bulletin* 47:3–34.
- WERNER, H. W. 1975. The biology of the Cape Sable sparrow. Report to USDI Fish and Wildlife Service, Everglades National Park, Homestead, FL.
- WERNER, H. W., AND G. E. WOOLFENDEN. 1983. The Cape Sable sparrows: its habitat, habits and history. Pp. 55–75 in T. L. Quay, J. B. Funderburg, Jr., D. S. Lee, E. F. Potter, and C. S. Robbins (editors). *The Seaside Sparrow: its biology and management*. Occasional Papers of the North Carolina Biological Survey 1983–5. Raleigh, NC.
- WETHERBEE, D. K. 1968. *Melospiza georgiana nigriscens* Coastal Plain Swamp Sparrow. Pp. 1490 in A. C. Bent (editor). *Life Histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows, and allies*. Dover Publications, Inc., New York, NY.
- WETMORE, A. 1926. Observations on the birds of Argentina, Paraguay, Uruguay and Chile. *Bulletin of the U.S. National Museum of Natural History* 133:1–448.
- WHEELWRIGHT, N. T., AND J. D. RISING. 1993. Savannah Sparrow (*Passerculus sandwichensis*). In A. Poole, and F. Gill (editors). *The birds of North America*, No. 45. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- WHITE, G. C., AND K. P. BURNHAM. 1999. Program MARK: Survival estimation from populations of marked animals. *Bird Study (Supplement)* 46: 120–139.
- WHITE, J. R., P. S. HOFMANN, K. A. F. URQUHART, D. HAMMOND, AND S. BAUMGARTNER. 1989. Selenium verification study, 1987–1988. A report to the California State Water Resources Control Board from California Department of Fish and Game, Sacramento, CA.
- WHITT, M. B., H. H. PRINCE, AND R. R. COX, JR. 1999. Avian use of purple loosestrife dominated habitat relative to other vegetation types in a Lake Huron wetland complex. *Wilson Bulletin* 111:105–114.
- WHITTINGHAM, L. A. 1989. An experimental study of paternal behavior in Red-winged Blackbirds. *Behavioral Ecology and Sociobiology* 25:73–80.
- WHITTINGHAM, L. A., AND R. J. ROBERTSON. 1994. Food availability, parental care and male mating success in Red-winged Blackbirds (*Agelaius phoeniceus*). *Journal of Animal Ecology* 63:139–150.
- WIENER, J. G., C. C. GILMOUR, AND D. P. KRABBEHOFT. 2003. Mercury strategy for the bay-delta ecosystem: a unifying framework for science, adaptive management, and ecological restoration. Draft Final Report to CALFED. CALFED Bay-Delta Authority, Sacramento, CA.
- WIENER, J. G., AND D. J. SPRY. 1996. Toxicological significance of mercury in freshwater fish. Pp. 297–339 in W. N. Beyer, G. H. Heinz, and A. W. Redmon-Norwood (editors). *Environmental contaminants in wildlife: interpreting tissue concentrations*. Lewis Boca Raton, FL.
- WIENS, J. A. 1994. Habitat fragmentation: island *v* landscape perspectives on bird conservation. *Ibis* 137:S97–S104.
- WIENS, J. A. 1996. Wildlife in patchy environments: metapopulations, mosaics, and management. Pp. 53–84 in D. R. McCullough (editor). *Metapopulations and Wildlife Conservation*. Island Press, Washington, DC.
- WIENS, J. A., AND J. T. ROTENBERRY. 1981. Censusing and the evaluation of avian habitat occupancy. *Studies in Avian Biology* 6:522–532.
- WILCOVE, D., C. McLELLAN, AND A. DOBSON. 1986. Habitat fragmentation in the temperate zone. Pp. 237–256 in M. Soule (editor). *Conservation biology: the science of scarcity and diversity*. Sinauer, Sunderland, MA.
- WILCOVE, D., S., D. ROTHSTEIN, J. DUBOW, A. PHILLIPS, AND E. LOSOS. 1998. Quantifying threats to imperiled species in the United States. *BioScience* 48: 607–615.
- WILEY, R. H. 1991. Associations of song properties with habitats for territorial oscine birds of eastern North America. *American Naturalist* 138:973–93.
- WILLIAMS, D. F. 1979. Checklist of California mammals. *Annals of the Carnegie Museum of Natural History* 48:425–433.
- WILLIAMS, D. F. 1986. Mammalian species of concern in California. *Wildlife Management Division Administrative Report 86-1*. Department of Fish and Game, Sacramento, CA.
- WILLIAMS, J. B., AND B. DWINNELL. 1990. Field metabolism of free-living female Savannah Sparrows during incubation: a study using doubly labeled water. *Physiological Zoology* 63:353–372.
- WILLIAMS, J. B., AND K. A. NAGY. 1984. Daily energy expenditure of Savannah Sparrows: comparison of time-energy budget and doubly labeled water estimates. *Auk* 101:221–229.
- WILLIAMS, J. B., AND K. A. NAGY. 1985. Daily energy expenditure by female Savannah Sparrows feeding nestlings. *Auk* 102:187–190.
- WILLIAMS, J. B., W. R. SIEGFREID, S. J. MILTON, N. J. ADAMS, W. R. J. DEAN, M. A. DU PLESSIS, AND S. JACKSON. 1993. Field metabolism, water requirements, and foraging behavior of wild ostriches in the Namib. *Ecology* 74:390–404.
- WILLIAMS, L. 1929. Notes on the feeding habits and behavior of the California Clapper Rail. *Condor* 31:52–56.
- WILLIAMS, P. B., AND M. K. ORR. 2002. Physical evolution of restored breached levee salt marshes in the San Francisco Bay estuary. *Restoration Ecology* 10:527–542.
- WILLIAMSON, D. 1994. Use of *Spartina* and open intertidal flats by common birds of Willapa Bay. Pp. 32–44 in *Spartina* management program: integrated weed management for private lands in Willapa Bay, Washington. Spartina Task Force for the Noxious Weed Board and Pacific County Commissioners, Willapa Bay, WA.
- WILLIAMSON, K. 1967. A bird community of accreting sand dune and salt marsh. *British Birds* 60:14–57.
- WILLNER, G., G. A. FELDHAMMER, E. ZUCKER, AND J. A. CHAPMAN. 1980. *Ondatra zibethicus*. *Mammalian Species* 141:1–8.

- WILSON, D. E., AND D. M. REEDER. 1993. Mammal species of the World. Smithsonian Institution Press, Washington, DC.
- WILSON, D. E., AND S. RUFF. 1999. The Smithsonian book of North American mammals. Smithsonian Institution Press, Washington, DC.
- WILSON, W. H., T. BRUSH, R. LENT, AND B. HARRINGTON. 1987. The effects of grid-ditching and open marsh water management on avian utilization of Massachusetts salt marshes. Pp. 333–349 in W. R. Whitman, and W. H. Meredith (editors). Waterfowl and wetlands symposium: proceedings of a symposium on waterfowl and wetlands management in the coastal zone of the Atlantic flyway. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover, DE.
- WINDHAM, L. 1999. Microscale spatial distribution of *Phragmites australis* (common reed) invasion into *Spartina patens* (salt hay)-dominated communities in brackish tidal marsh. Biological Invasions 1: 137–148.
- WITHERS, P. C. 1992. Comparative animal physiology. Saunders College Publishing, New York, NY.
- WOLF, C. M., T. GARLAND, JR., AND B. GRIFFITH. 1998. Avian and mammalian translocations: reanalysis with phylogenetically independent contrasts. Biological Conservation 86:243–255.
- WOLFE, J. L. 1982. *Oryzomys palustris*. Mammalian Species 176:1–5.
- WOLFE, M. F., S. SCHWARZBACH, AND R. A. SULAIMAN. 1998. Effects of mercury on wildlife: a comprehensive review. Environmental Toxicology and Chemistry 17:146–160.
- WOLFE, R. A. 1996. Effects of open marsh water management on selected tidal marsh resources: a review. Journal of the American Mosquito Control Association 12:701–712.
- WOOD, R. C. 1977. Evolution of the emydine turtles *Graptemys* and *Malaclemys* (Reptilia, Testudines, Emydidae). Journal of Herpetology 11:415–421.
- WOOD, R. C., AND R. HERLANDS. 1997. Turtles and tires: the impact of roadkills on northern diamondback terrapin, *Malaclemys terrapin terrapin*. Pp. 46–53 in J. Van Abbema (editor). Proceedings: conservation, restoration and management of tortoises and turtles. New York Turtle and Tortoise Society, New York, NY.
- WOODS, C. A., W. POST, AND C. W. KILPATRICK. 1982. *Microtus pennsylvanicus* (Rodentia: Muridae) in Florida: a Pleistocene relict in a coastal saltmarsh. Bulletin of the Florida State Museum Biological Sciences 28:25–52.
- WOOLFENDEN, G. E. 1956. Comparative breeding behavior of *Ammospiza caudacuta* and *A. maritima*. University of Kansas Publications, Museum of Natural History 10:45–75.
- WRAY, T., II. K. A. STRAIT, AND R. C. WHITMORE. 1982. Reproductive success of grassland bird on a reclaimed surface mine in West Virginia. Auk 99: 157–164.
- WRIGHT, S. A., AND D. H. SCHOELLHAMER. 2004. Trends in the sediment yield of the Sacramento River, California, 1957–2001. San Francisco Estuary and Watershed Science 2:2, Article 2. <<http://repositories.cdlib.org/jmie/sfewws/vol2/iss2/art2>> (6 June 2006).
- YANEV, K. P. 1980. Biogeography and distribution of three parapatric salamander species in coastal and borderland California. Pp. 531–549 in D. M. Power (editor). The California Islands: proceedings of a multidisciplinary symposium. Santa Barbara Museum of Natural History, Santa Barbara, CA.
- YASUKAWA, K., F. LEANZA, AND C. D. KING. 1993. An observational and brood-exchange study of paternal provisioning in the Red-winged Blackbird, *Agelaius phoeniceus*. Behavioral Ecology 4:78–82.
- YASUKAWA, K., J. L. MCCLURE, R. A. BOLEY, AND J. ZANOCO. 1990. Provisioning of nestlings by male and female Red-winged Blackbirds, *Agelaius phoeniceus*. Animal Behaviour 40:153–166.
- YASUKAWA, K., AND W. A. SEARCY. 1995. Red-winged Blackbird (*Agelaius phoeniceus*). In A. Poole, and F. Gill (editors). The birds of North America, No. 184. The Academy of Natural Sciences, Philadelphia, PA and The American Ornithologists' Union, Washington, DC.
- YORIO, P. 1998. Anexo II: Capítulo 13. Costa Argentina (Patagonia). In P. Canevari, I. Davidson, D. E. Blanco, G. Castro, and E. H. Bucher (editors). Los humedales de América del Sur. Una agenda para la conservación de la biodiversidad y las políticas de desarrollo. Wetlands International. Wageningen, The Netherlands.
- YOUNG, B. E. 1996. An experimental analysis of small clutch size in tropical House Wrens. Ecology 77: 472–488.
- YOUNG, K. E. 1987. The effect of Greater Snow Goose, *Anser caerulescens atlantica*, on grazing on a Delaware tidal marsh. Pp. 51–54 in W. R. Whitman, and W. H. Meredith (editors). Waterfowl and wetlands symposium: proceedings of a symposium on waterfowl and wetlands management in the coastal zone of the Atlantic flyway. Delaware Coastal Management Program, Delaware Department of Natural Resources and Environmental Control, Dover, DE.
- YOUNG, K. R. 1994. Roads and the environmental degradation of tropical montane forests. Conservation Biology 8:972–976.
- ZAR, J. H. 1999. Biostatistical analysis. Prentice Hall, Upper Saddle River, NJ.
- ZEDLER, J. B. 1982. The ecology of southern California coastal salt marshes: a community profile. USDI Fish and Wildlife Service, Biological Services Program. FWS/OBS-81/54. Washington, DC.
- ZEDLER, J. B. 1993. Canopy architecture of natural and planted cordgrass marshes: selecting habitat evaluation criteria. Ecological Applications 3:123–138.
- ZEDLER, J. B. 1996. Coastal mitigation in southern California: the need for a regional restoration strategy. Ecological Applications 6:84–93.
- ZEDLER, J. B. (EDITOR). 2001. Handbook for restoring tidal wetlands. In M. J. Kennish (editor). CRC Marine Science Series. CRC Press, Boca Raton, FL.
- ZEDLER, J. B., J. C. CALLAWAY, AND G. SULLIVAN. 2001. Declining biodiversity: why species matter and how their functions might be restored in Californian tidal marshes. BioScience 51:1005–1017.

- ZEDLER, J. B., J. COVIN, C. NORDBY, P. WILLIAMS, AND J. BOLAND. 1986. Catastrophic events reveal the dynamic nature of salt-marsh vegetation in southern California. *Estuaries* 9:75-80.
- ZEMBAL, R., AND S. M. HOFFMAN. 2002. A survey of the Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*) in California, 2001. Habitat Conservation Planning Branch, Species Conservation and Recovery Program Report 2002-01, California Department of Fish and Game, Sacramento, CA.
- ZEMBAL, R., S. M. HOFFMAN, AND J. R. BRADLEY. 1998. Light-footed Clapper Rail management and assessment, 1997. Habitat Conservation Planning Branch, Species Conservation and Recovery Program Report 1998-01, California Department of Fish and Game, Sacramento, CA.
- ZEMBAL, R., J. KRAMER, R. J. BRANSFIELD, AND N. GILBERT. 1988. A survey of Belding's Savannah Sparrows in California. *American Birds* 42:1233-1236.
- ZEMBAL, R., AND B. W. MASSEY. 1987. Seasonality of vocalizations by Light-footed Clapper Rails. *Journal of Field Ornithology* 58:41-48.
- ZEMBAL, R., W. B. MASSEY, AND J. M. FANCHER. 1989. Movements and activity patterns of the light-footed Clapper Rail. *Journal of Wildlife Management* 53:39-42.
- ZERVAS, C. 2001. Sea-level variations of the United States, 1854-1999. National Oceanic and Atmospheric Administration Technical Report NOS CO-OPS 36, Silver Spring, MD.
- ZETTERQUIST, D. K. 1977. The salt marsh harvest mouse (*Reithrodontomys raviventris raviventris*) in marginal habitats. *The Wasmann Journal of Biology* 35:68-76.
- ZIMMERMAN, T. D. 1992. Latitudinal reproductive variation of the saltmarsh turtle, the diamondback terrapin (*Malaclemys terrapin*). M.S. thesis, University of Charleston, Charleston, SC.
- ZINK, R. M., AND J. C. AVISE. 1990. Patterns of mitochondrial DNA and allozyme evolution in the avian genus *Ammodramus*. *Systematic Zoology* 39:148-161.
- ZINK, R. M., AND R. C. BLACKWELL. 1996. Patterns of allozyme, mitochondrial DNA and morphometric variation in four sparrow genera. *Auk* 113:59-67.
- ZINK, R. M., AND D. L. DITTMANN. 1993. Gene flow, refugia, and evolution of geographic variation in the Song Sparrow (*Melospiza melodia*). *Evolution* 47:717-729.
- ZINK, R. M., D. L. DITTMANN, AND S. W. CARDIFF. 1991. Mitochondrial DNA variation and the taxonomic status of the Large-Billed Savannah Sparrow. *Condor* 93:1016-1019.
- ZINK, R. M., AND H. W. KALE. 1995. Conservation genetics of the extinct Dusky Seaside Sparrow *Ammodramus maritimus nigrescens*. *Biological Conservation* 74:69-74.
- ZINK, R. M., AND J. V. REMSEN, JR. 1986. Evolutionary processes and patterns of geographic variation in birds. *Current Ornithology* 4:1-69.
- ZINK, R. M., J. D. RISING, S. MOCKFORD, A. G. HORN, J. M. WRIGHT, M. LEONARD, AND M. C. WESTBERG. In press. Mitochondrial DNA variation, species limits, and rapid evolution of plumage coloration and size in the Savannah Sparrow. *Condor*.
- ZUCCA, J. J. 1954. A study of the California Clapper Rail. *Wasmann Journal of Biology* 12:135-153.
- ZUG, D. A., AND W. A. DUNSON. 1979. Salinity preference in freshwater and estuarine snakes (*Nerodia sipedon* and *N. fasciata*). *Florida Scientist* 42:1-8.