

INDEX TO VOLUME 33

BY ELISE VERNON SCHMIDT

The index includes references to general, species, common names, key words and authors. Reference is also made to book reviews, dissertation and thesis abstracts, letters, and reviewers. Taxa other than raptors are included where referenced by authors.

A

- Abundance, 317–322
Acari, 257–260
Accipiter bicolor, 244–247
 cooperii, 329–332
 gentilis, 168–169, 240–244
 striatus, 329–332
Aerial surveys, 295–298, 299–304
Afro-alpine habitats, 102–109
Agriculture, 1–37
Agricultural environments, 117–122
 habitat, 287–294
Aguirre-Barrera, Oscar A., see Baker, Aaron J.
Alaska, Prince William Sound, 299–304
 southeast, 295–298
Alvizatos, Haralambos and Vassilis Goutner, Winter diet of the Barn Owl (*Tyto alba*) and Long-eared Owl (*Asio otus*) in northeastern Greece: A comparison, 160–163
Amador, E., and R. Mendoza-Salgado, Records of the Swainson's Hawk in the Cape Region, Baja California Sur, Mexico, 344–345
Anticholinesterases, 1–37
Aquila chryaetos, 102–109
 clanga, 257–260
Argentina, 268–269
Arizona, 218–226
Arroyo, Beatriz E. and Vincent Bretagnolle, Breeding biology of the Short-eared Owl (*Asio flammeus*) in agricultural habitats of southwestern France, 287–294
Asio flammeus, 287–294
 otus, 160–163
Athene cunicularia, 149–153, 333–335
Avery, Graham M., see Jenkins, Andrew R.
Avian collisions, 154–159
 prey, 172–175
Avila, Juventino Lopez, see Baker, Aaron J.
Avoidance models, 154–159

B

- Baker, Aaron J., David F. Whitacre, Oscar A. Aguirre-Barrera, Juventino Lopez Avila, and Clayton M. White, Observation of a Double-toothed Kite (*Harpagus bidentatus*) hawking bats, 343–344
Barrau, Claude, see Clouet, Michel

- Bat, Mexican free-tailed, 333–335
Bayle, Patrick, Preventing birds of prey problems at transmission lines in western Europe, 43–48
Beatty, Greg L., see Driscoll, Daniel E.
Behavior, 227–232
Biebrza National Park, 257–260
Bigamy, 254–257
Biogeography, 305–312
Blood sampling, 128–133
Boat disturbance, 97–101
Bock, Carl E., see Fletcher, Robert J., Jr.
Bollinger, Trent, see Mineau, Pierre
Book Reviews, 76–78, 178–179, 272
Bosakowski, Thomas, Bruce McCullough, Frank J. Lapsansky and Martin E. Vaughn, Northern Goshawks nesting on a private industrial forest in western Washington, 240–244
Boto, Alberto, see Sergio, Fabrizio
Bowman, Timothy D. and Philip F. Schempf, Detection of Bald Eagles during aerial surveys in Prince William Sound, Alaska, 299–304
Brassard, Candace, see Mineau, Pierre
Breeder turnover, 218–226
Breeding density, 110–116
 dispersal, 181–189
 success, 117–122, 207–217, 287–294
Bretagnolle, Vincent, see Arroyo, Beatriz E.
Brouse, Phillip, Twenty year change in the raptor community in northern Utah during the nonbreeding season, 317–322
Brown, Bryan T., G. Scott Mills, Cornelius Powels, William A. Russell, Glenn D. Therres, and James J. Pottie, The influence of weapons-testing noise on Bald Eagle behavior, 227–232
Bubo virginianus, 168–169, 170–172
Bustamante, Javier, see Kleef, Hein Van
Buteo hemilasius, 323–326
 jamaicensis, 248–251, 305–312
 lineatus, 248–251
Buzzard, Upland, 323–326

C

- California, 81–86, 87–96, 275–286
Cannibalism, 164–167
Canonical correlation, 305–312

- Caracara, Crested, 128–133
 Striated, 268–269
Caracara plancus, 128–133
 Carrying capacity, 335–338
 Carter, Ian, Mick McQuaid, Nigel Snell, and Peter Stevens, The Red Kite (*Milvus milvus*) reintroduction project: Modeling the impact of translocating kite young within England, 251–254
 Chapman, Brian R., see Moorman, Christopher E.
 Chesapeake Bay, 227–232
 Chile, 170–172, 264–267
 central, 260–264
Circus cinereus, 264–267
 pygargus, 117–122
 Clark, William S., a review of: *The Raptors of Europe and The Middle East: A Handbook of Field Identification*, by Dick Forsman, 178–179.
 Cliff selection, 110–116
 Clouet, Michel, Claude Barrau, and Jean-Louis Goar, The Golden Eagle (*Aquila chrysaetos*) in the Bale Mountains, Ethiopia, 102–109
 Coloniality, 207–217
 Communication, 134–142
 Competition, 190–206
 Conservation, 287–294, 335–338, 338–340
 measures, 117–122
 Contreras-Balderas, Armando J., and Fernando Montiel-de la Garza, Swainson's Hawks in Nuevo Leon, Mexico, 176–177
 Cooperative hunting, 123–127
 Corales S, Ema S., see Figueroa R., Ricardo A.
 Corbacho, C., J. M. Sanchez and A. Sanchez, Effectiveness of conservation measures on Montagu's Harriers in agricultural areas of Spain, 117–122
 Crafford, D., J. W. H. Ferguson, and A. C. Kemp, Why do Grass Owls (*Tyto capensis*) produce clicking calls?, 134–142

D

- Davies, Robert A. G., The extent, cost and control of livestock predation by eagles with a case study on Black Eagles (*Aquila verreauxii*) in the Karoo, 67–72
 Demography, 149–153
 Density, 207–217, 275–286
 Detection rates, 299–304
 Detrich, Phillip J., see Jackman, Ronald E.
 Dewey, Sarah R., see McCloskey, Jon T.
 Diaz, Ivan, Food habits of the Rufous-legged Owl (*Strix rufipes*) in the Mediterranean sclerophyllous forest of central Chile, 260–264
 Diet, 143–148, 160–163, 172–175, 190–206, 207–217, 313–316, 338–340
 Diller, Lowell V., and Darrin M. Thome, Population density of Northern Spotted Owls in managed young-growth forests in coastal northern California, 275–286
 Display, social, 164–167
 DNA, 128–133
 Driscoll, Daniel E., Ronald E. Jackman, W. Grainger Hunt, Greg L. Beatty, James T. Driscoll, Richard L. Glinski, Thomas A. Gatz, and Robert I. Mesta, Status of nesting Bald Eagles in Arizona, 218–226
 Driscoll, James T., see Driscoll, Daniel E.
 Dunk, Jeffrey R., see Fitzpatrick, Benjamin M.

E

- Eagle, Bald, 81–86, 87–96, 97–101, 218–226, 227–232, 295–298, 299–304
 Bonelli's, 110–116
 Golden, 102–109
 Madagascar Fish, 335–338
 Spotted, 257–260
 Verreaux's, 102–109
 Echolocation, 134–142
 Ecotone, 335–338
 Eggs, 244–247
 Elliott, John E., see Mineau, Pierre
 Ellis, David H., Peter L. Whitlock, P. Tsengeg, and R. Wayne Nelson, Sibilicide, splayed-toes-flight display, and grappling in the Saker Falcon, 164–167
 Ellis, David H., Neil Woffinden, Peter L. Whitlock, and P. Tsengeg, Pronounced variation in tarsal and foot feathering in the Upland Buzzard (*Buteo hemilasus*) in Mongolia, 323–326
 Endangered, 335–338
 England, 251–254
 Erratum, 273
 Ethiopia, 102–109
 Evolutionary ecology, 305–312

F

- Falco biarmicus*, 123–127, 190–206
 cherrug, 164–167
 peregrinus, 190–206, 326–328
 tinnunculus, 172–175
 Falcon, Lanner, 123–127, 190–206
 Peregrine, 190–206, 326–328
 Saker, 164–167
 Fattorini, Simone, see Piattella, Emanuele
 Feather condition, 323–326
 Ferguson, J. W. H., see Crafford, D.
 Ferrer, Miguel, see Janss, Guyonne F. E.
 Ferrer, Miguel, a review of: *In-hand Identification Guide to Palearctic Raptors* by William S. Clark and Reuven Yosef, 1998, 76
 Figueroa R, Ricardo A. and Ema S. Corales S., Food habits of the Cinereous Harrier (*Circus cinereus*) in the Araucania, southern Chile, 264–267
 Fitzpatrick, Benjamin M., and Jeffrey R. Dunk, Ecogeographic variation in morphology of Red-tailed Hawks in western North America, 305–312
 Fletcher, Mark R., see Mineau, Pierre

- Fletcher, Robert J. Jr., Shawn T. McKinney, and Carl E. Bock, Effects of recreational trails on wintering diurnal raptors along riparian corridors in a Colorado grassland, 233–239
- Florida, 97–101
- Food, 264–267
habits, 87–96, 260–264
- Forestry, 240–244
- Frere, Esteban, Alejandro Travaini, Anibal Parera, and Adrian Schiavini, Striated Caracara (*Phalcoeboenus australis*) population at Staten and Ano Nuevo Islands, 268–269

G

- Garner, Heath D., Distribution and habitat use of Sharpshinned and Cooper's Hawks in Arkansas, 329–332
- Garzo, Fernando Montiel-de la, see Contreras-Balderas, Armando J.
- Gatz, Thomas A., see Driscoll, Daniel E.
- Gelbach, Frederick R., a review of: *Biology and Conservation of Owls of the Northern Hemisphere: Second International Symposium*, Ed. by J. R. Duncan, D. H. Johnson, and T. H. Nicholls, 1997, 76–78
- Gender determination, 128–133
- Geographic variation, 305–312
- Glaser, Linda C., see Mineau, Pierre
- Glinski, Richard L., see Driscoll, Daniel E.
- Goar, Jean-Louis, see Clouet, Michel
- Gobalet, Kenneth W., 333–335
- Goodman, Steven M., see Karpanty, Sarah M.
- Goshawk, Northern, 168–169, 240–244
- Goutner, Vassilis, see Alivizatos, Haralambos
- Grappling, 164–167
- Grasslands, 233–239
- Greece, 160–163
- Gutierrez, R. J., see Seamans, Mark E.
- Gwiazdowicz, Dariusz J., Tadeusz Mizera, and Maciej Skorupski, Mites in Greater Spotted Eagle nests, 257–260

H

- Habitat, 240–244
- Haliaeetus leucocephalus*, 81–86, 87–96, 97–101, 218–226, 227–232, 295–298, 299–304
vociferoides, 335–338
- Harrier, Cinereous, 264–267
- Montagu's, 117–122
- Harrier-Hawk, Madagascar, 313–316
- Hawk, Bicolored, 244–247
Cooper's, 329–332
Red-shouldered, 248–251
Red-tailed, 248–251, 305–312
Sharp-shinned, 329–332
- Henny, Charles J., see Mineau, Pierre
- Hieraetus fasciatus*, 110–116
- Hobbs, Jonathan C. A., see Ledger, John A.

- Hodges, John I., see Jacobson, Michael J.
- Hoetker, Geoffrey M. and Kenneth W. Gobalet, Predation on Mexican free-tailed bats by Burrowing Owls in California, 333–335
- Howell, Doug L., see Moorman, Christopher E.
- Human activity, 97–101, 233–239
disturbance, 227–232
- Hunt, W. Grainger, see Jenkins, J. Mark
- Hunt, W. Grainger, see Jackman, Ronald E.
- Hunt, W. Grainger, see Driscoll, Daniel E.
- Husak, Michael S., see Maxwell, Terry C.

I

- Iberian Peninsula, 117–122
- Inbreeding, close, 326–328
- Interspecific competition, 102–109
- Italy, 207–217

J

- Jackdaw, 123–127
- Jackman, Ronald E., W. Grainger Hunt, J. Mark Jenkins, and Phillip J. Detrich, Prey of nesting Bald Eagles in northern California, 87–96
- Jackman, Ronald E., see Driscoll, Daniel E.
- Jackman, Ronald E., see Jenkins, J. Mark
- Jacobson, Michael J., and John I. Hodges, Population trend of adult Bald Eagles in southeast Alaska, 1967–97, 295–298
- Jaksic, Fabian M., see Santibanez, David P.
- Janss, Guyonne F. E., Alfonso Lazo, and Miguel Ferrer, Use of raptor models to reduce avian collisions with powerlines, 154–159
- Jenkins, Andrew R., and Graham M. Avery, Diets of breeding Peregrine and Lanner Falcons in South Africa, 190–206
- Jenkins, J. Mark, Ronald E. Jackman and W. Grainger Hunt, Survival and movements of immature Bald Eagles fledged in northern California, 81–86
- Jenkins, J. Mark, see Jackman, Ronald E.
- Johnson, Donald R., Ospreys incubate goose egg to hatching, 176

K

- Karpanty, Sarah M., and Steven M. Goodman, Diet of the Madagascar Harrier-Hawk, *Polyboroides radiatus*, in southeastern Madagascar, 313–316
- Kelly, T. Adam, Seasonal variation in birdstrike rate for two North American raptors: Turkey Vulture (*Cathartes aura*) and Red-tailed Hawk (*Buteo jamaicensis*), 59–62
- Kemp, A. C., see Crafford, D.
- Kenward, Robert E., Solving raptor-human conflicts, 38
- Kenward, Robert E., Raptor predation problems and solutions, 73–75
- Kestrel, Common, 172–175
- Kiff, Lloyd F., see Thorstrom, Russell

- Kite, Black, 207–217
 Red, 251–254, 254–257
- Kleef, Hein Van, and Javier Bustamante, First recorded polygynous mating in the Red Kite (*Milvus milvus*), 254–257
- Kochert, Michael N., and Richard R. Olendorff, Creating raptor benefits from powerline problems, 39–42
- Krakauer, Alan H. and Thomas H. Krakauer, Foraging of Yellow-headed Caracaras in the fur of a three-toed sloth, 270
- Krakauer, Thomas H., see Krakauer, Alan H.
- L**
- Lapsansky, Frank J., see Bosakowski, Thomas
- Larraz, David Serrano, Dumps for dead livestock and the conservation of wintering Red Kites (*Milvus milvus*), 338–340
- Lazo, Alfonso, see Janss, Guyonne F. E.
- Ledger, John A. and Jonathan C. A. Hobbs, Raptor use and abuse of powerlines in southern Africa, 49–52
- Lemur predation, 313–316
- Leonardi, Giovanni, Cooperative hunting of Jackdaws by the Lanner Falcon (*Falco biarmicus*), 123–127
- Letters, 176–177, 341–345
- Livestock, dead, 338–340
- Long-term study, 181–189
- Lutz, R. Scott and David L. Plumpton, Philopatry and nest site reuse by Burrowing Owls: Implications for productivity, 149–153
- Lyon, Linda A., see Mineau, Pierre
- M**
- Madagascar Harrier-Hawk, 313–316
- Maltbie, Mary, see Morrison, Joan
- Managed forests, 275–286
- Manganaro, Alberto, see Piattella, Emanuele
- Manuscript referrees, 79
- Mark-recapture, 275–286
- Marks, Jeff, a review of: *Holarctic Birds of Prey* Ed. by B.U. Meyburg, R. D. Chancellor, and J. J. Ferrero, 1998, 272
- Marti, Carl D., Natal and breeding dispersal in Barn Owls, 181–189
- Maryland, 227–232
- Maxwell, Terry C. and Michael S. Husak, Common Black-Hawk nesting in west-central Texas, 270–271
- McCloskey, Jon T., and Sarah R. Dewey, Improving the success of a mounted Great Horned Owl lure for trapping Northern Goshawks, 168–169
- McCullough, Bruce, see Bosakowski, Thomas
- McGrady, M. J., E. Potapov and I. Utekhina, Brown bear (*Ursos arctos*) feeds on Steller's Sea Eagle (*Haliaeetus pelagicus*) nestling, 342–343
- McKinney, Shawn T., see Fletcher, Robert J., Jr.
- McQuaid, Mick, see Carter, Ian
- Mediterranean sclerophyllous forest, 260–264
- Mendoza-Salgado, R., see Amador, E.
- Mesostigmata, 257–260
- Mesta, Robert I., see Driscoll, Daniel E.
- Midwestern U.S., 326–328
- Migration, 149–153
- Mills, G. Scott, see Bryan T. Brown
- Milvus migrans*, 207–217
milvus, 251–254, 254–257, 338–340
- Mineau, Pierre, Mark R. Fletcher, Linda C. Glaser, Nancy J. Thomas, Candace Brassard, Laurie K. Wilson, John E. Elliott, Linda A. Lyon, Charles J. Henny, Trent Bollinger, and Stuart L. Porter, Poisoning of raptors with organophosphorus and carbamate pesticides with emphasis on Canada, U.S. and U.K., 1–37
- Mites, 257–260
- Mizera, Tadeusz, see Gwiazdowicz, Dariusz J.
- Moorman, Christopher E., Doug L. Howell, and Brian R. Chapman, Nesting ecology of Red-shouldered and Red-tailed Hawks in Georgia, 248–251
- Morphometrics, 305–312
- Morrison, Joan L., and Mary Maltbie, Methods for gender determination of Crested Caracaras, 128–133
- Mortality, 81–86, 154–159
- Movements, 81–86
- N**
- Natal dispersal, 181–189
- Nelson, R. Wayne, see Ellis, David H.
- Neotoma* spp., 143–148
- Nest, 240–244, 244–247
 site reoccupancy, 248–251
 site reuse, 149–153
 sites, 329–332
- Nesting, 218–226
 chronology, 248–251
 density, 240–244
 success, 329–332
- Niche dimensions, 190–206
- Noise effects, 227–232
- O**
- Olendorff, Richard R., see Kochert, Michael N.
- Ontiveros, Diego, Selection of nest cliffs by Bonelli's Eagle (*Hieraetus fasciatus*) in southeastern Spain, 110–116
- Owl, Barn, 160–163, 170–172, 181–189
 Burrowing, 149–153, 333–335
 Grass, 134–142
 Great Horned, 168–169, 170–172
 Long-eared, 160–163
 Mexican Spotted, 143–148
 Northern Spotted, 275–286
 Rufous-legged, 260–264
 Short-eared, 287–298

P

- Pacific Northwest, 240–244
 Parera, Anibal, see Frere, Esteban
 Parker, James W., Raptor attacks on people, 63–66
 Perch use, 233–239
Peromyscus spp., 143–148
 Pesticides, 1–37
Phalacrocorax australis, 268–269
 Philopatry, 149–153
 Piattella, Emanuele, Luca Salvati, Alberto Manganaro, and Simone Fattorini, Spatial and temporal variations in the diet of the Common Kestrel (*Falco tinnunculus*) in urban Rome, Italy, 172–175
 Pine plantations, 329–332
 Plumpton, David L., see Lutz, R. Scott
 Poisoning, 1–37
 Poland, 257–260
Polyboroides radiatus, 313–316
 Polygyny, 254–257
 Population size, 268–269
 status, 218–226
 trend, 295–298
 Porter, Stuart L., see Mineau, Pierre
 Potapov, E., see McGrady, M.J.
 Pottie, James J., see Bryan T. Brown
 Powels, Cornelius, see Bryan T. Brown
 Powerlines, 154–159
 Predation, 333–335
 Prey abundance, 102–109
 group size, 123–127
 location, 134–142
 remains, 87–96
 selection, 170–172
 Productivity, 102–109, 218–226, 240–244
 Ptulosis, 323–326

R

- Radiotelemetry, 81–86
 Random plot sampling, 295–298
 Raptor, 1–37, 233–239, 317–322
 neotropical, 244–247
 Razafindramanana, Suzanne, see Watson, Richard T.
 Recreational trails, 233–239
 Redig, Patrick T., see Tordoff, Harrison B.
 Reintroduction, 251–254
 Reproduction, 149–153
 Reproductive success, 143–148, 248–251
 Riparian corridors, 233–239
 Rome, Italy, 172–175
 Russell, William A., see Bryan T. Brown

S

- Salvati, Luca, see Piattella, Emanuele
 Sanchez, A., see Corbacho, C.
 Sanchez, J. M., see Corbacho, C.

- Santibanez, David P., and Fabian M. Jaksic, Prey size matters at the upper tail of the distribution: A case study in northcentral Chile, 170–172
 Schempf, Philip F., see Bowman, Timothy D.
 Schiavini, Adrian, see Frere, Esteban
 Seamans, Mark E., and R. J. Gutierrez, Diet composition and reproductive success of Mexican Spotted Owls, 143–148
 Semiarid ecosystem, 170–172
 Sergio, Fabrizio and Alberto Boto, Nest dispersion, diet, and breeding success of Black Kites (*Milvus migrans*) in the Italian pre-Alps, 207–217
 Short communications, 160–163, 240–269, 323–340
 Short-eared Owl, 287–294
 Siblicide, 164–167
 Sicily, 123–127
 Skorupski, Maciej, see Gwiazdowicz, Dariusz J.
 Snell, Nigel, see Carter, Ian
 Spain, Donana, 254–257
 southeastern, 110–116
 Spatial utilization, 335–338
 Stevens, Peter, see Carter, Ian
Strix occidentalis caurina, 275–286
 occidentalis lucida, 143–148
 rufipes, 260–264
 Subadult recruitment, 218–226
 Survey, roadside, 317–322
 Survival, 81–86

T

- Tadarida brasiliensis*, 333–335
 Territoriality, 134–142
 Therres, Glenn D., see Bryan T. Brown
 Thomas, Nancy J., see Mineau, Pierre
 Thome, Darrin M., see Diller, Lowell V.
 Thompson, Michael M., Using a GIS to integrate seasonal raptor distributions into a bird avoidance model for aircraft, 53–58
 Thorstrom, Russell and Lloyd F. Kiff, Notes on eggs of the Bicolored Hawk *Accipiter bicolor*, 244–247
 Tordoff, Harrison B. and Patrick T. Redig, Close inbreeding in Peregrine Falcons in midwestern U.S., 326–328
 Translocations, 251–254
 Trapping, 168–169
 Travaini, Alejandro, see Frere, Esteban
 Tsengeg, P., see Ellis, David H.
 Tsengeg, P., see Ellis, David H.
Tyto alba, 160–163, 170–172, 181–189
 capensis, 134–142

U

- Urban area, 172–175
 Utah, 181–189, 317–322
 Utekhina, I., see McGrady, M. J.

V

- Vaughn, Martin E., see Bosakowski, Thomas
Visibility bias, 299-304

W

- Watson, Richard T. and Suzanne Razafindramanana,
Nearest neighbor nest distances, home range and
territory area of the Madagascar Fish Eagle (*Haliaeetus vociferoides*), 335-338
Whitacre, David F., see Baker, Aaron J.
White, Clayton M., see Baker, Aaron J.

- Whitlock, Peter L., see Ellis, David H.
Whitlock, Peter L., see Ellis, David H.
Wilson, Laurie K., see Mineau, Pierre
Winter, 317-322
Wintering populations, 338-340
Woffinden, Neil, see Ellis, David H.
Wood, Petra Bohall, Bald Eagle response to boating activity in northcentral Florida, 97-101

Y

- Yosef, Reuven, The Lesser Kestrel (*Falco naumanni*) at
Dana Nature Reserve, Jordan, 341-342