

INDEX TO VOLUME 32

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

- Accipiter cooperii*, 281–285
gentilis, 189–194, 297–305
Aegyptius monachus, 202–207
Africa, 151–158
 east, 28–39
Akaki, Chikako, and Gary E. Duke, Egestion of chitin in pellets of American Kestrels and Eastern Screech Owls, 286–289
Alaska, 261–264
Amadon, Dean, A review of Rotmilan-Sonderheft, Edited by K. Richarz, B.-U. Meyburg, and M. Horsman, 1995, 186
Anderson, Raymond K., see Stout, William E.
Aquila chrysaetos, 314–318
Argentina, 306–311, 312–314
Arizona, 281–285
Arrowood, Patricia C., see Botelho, Eugene S.
Arroyo, Beatriz, Alain Leroux, and Vincent Bretagnolle, Patterns of egg and clutch size variation in the Montagu's Harrier, 136–142
Artificial burrows, 233–240
Asio flammeus, 111–115, 116–119
 otus, 170–174
Athene cunicularia, 241–245
Augsburger, Tom, and Allen Boynton, Organochlorines and mercury in Peregrine Falcon eggs from western North Carolina, 251–254
Australia, 64–73

B

- Balen, van, S. (Bas), Tropical forest raptors in Indonesia: Recent information on distribution, status, and conservation, 56–63
Bayle, Patrick, see Sequin, Jean-Francois
Bechard, Marc J., see Kaltenecker, Gregory S.
Behavior, 290–296
Bellocq, M. Isabel, Stella M. Bonaventura, Favio N. Marcelino, and Maria Sabatini, Habitat use of Crowned Eagles (*Harpyhaliaetus coronatus*) in the southern limits of the species range, 312–314
Benn, Grant A., see Jenkins, Andrew R.
Bennetts, Robert E., see Valentine-Darby, Patricia L.
Bielefeldt, John, see Rosenfield, Robert N.

- Bildstein, Keith L., Conservation status of tropical raptors, 3–18
Birerregaard, Richard O., Jr., Conservation status of birds of prey in the South American tropics, 19–27
Black-Hawk, Great, 175–177
Blanco, Guillermo, see Fargallo, Juan A
Blood, 159–162
Blood parasites, 281–285
Bloom, Peter H., A review of: The Raptors of Arizona, Ed. by Richard L. Glinski, 1998, 349–350
Boal, Clint W., K. Stormy Hudelson, R. William Mannan, and Tracy S. Estabrook, Hematology and hematozoa of adult and nestling Cooper's Hawks in Arizona, 281–285
Bonaventura, Stella M., see Bellocq, M. Isabel
Book reviews, 74–75, 185–187, 349–350
Botelho, Eugene S., and Patricia C. Arrowood, The effect of burrow site use on the reproductive success of a partially migratory population of western Burrowing Owls (*Speotyto cunicularia hypugaea*), 233–240.
Boynton, Allen, see Augsburger, Tom
Breeding biology, 175–177
 range, 189–194
 season, 98–103
Bretagnolle, Vincent, see Arroyo, Beatriz
Brooks, Thomas M., A record of a Harpy Eagle from eastern Paraguay, 318–321
Bruggers, Richard L., see Keith, James O.
Buteo buteo, 82–89
 jamaicensis, 163–169, 178–180, 221–228
 lagopus, 178–180
 lineatus, 257–260
Buteogallus urubitinga, 175–177

C

- California, northwestern, 104–110
Calvo, Jose F., see Sanchez-Zapata, Jose A.
Cape Peninsula, 90–97
Caracara, Crested, 159–162
Caracara plancus audubonii, 159–162
Chapman, Brian R., see Howell, Doug L.
Chavez-Leon, Gilberto, see Gutierrez, R. J.
CHD gene, 278–280
Chile, 111–115
Chitin, 286–289

- Circus cyaneus*, 116–119, 178–180
pygargus, 136–142, 254–256, 269–277
 Clarke, Ralph T., see Hodder, Kathy H.
 Cluster analysis, incremental, 82–89
 Clutch size, 136–142
 Codina, Jordi, see Manosa, Santi
 Commentary, Ed. by Daniel E. Varland, 323–348
 Communal roosts, 116–119
 Conservation, 19–27, 28–39, 40–55, 56–63, 64–73, 126–135, 208–214, 233–240
 status, 3–18
 Copulation, 269–277
 Copulation refusal, 269–277
 Corsica, 314–318
 Crocker-Bedford, D. Coleman, The value of demographic and habitat studies in determining the status of Northern Goshawks (*Accipiter gentilis atricapillus*) with special reference to Crocker-Bedford (1990) and Kennedy (1997), 329–336

D

- Dams, 215–220
 Delaney, David K., Teryl G. Grubb, and David K. Garcelon, An infrared video camera system for monitoring diurnal and nocturnal raptors, 290–296.
 DeStefano, Stephen, Determining the status of Northern Goshawks in the west: Is our conceptual model correct?, 342–348
 Diet, 116–119, 175–177, 241–245, 254–256, 297–305, 314–318
 Digestibility, 286–289
 Distribution, 40–55, 56–63, 126–135
 Disturbance, 261–264
 Diurnal activity, 290–296
 Dominican Republic, 241–245
 Doolittle, Thomas C. J., see Rosenfield, Robert N.
 Doyle, Terry J., see Ritchie, Robert J.
 Dudin, P. I., see Henny, C. J.
 Duke, Gary E., see Akaki, Chikako

E

- Eagle, Bald, 120–125, 215–220
 Bonelli's, 208–214
 Crowned, 312–314
 Golden, 314–318
 Harpy, 318–321
 Eagles, 143–150
 Ecology, 28–39, 241–245
 Egg size, 136–142
 Elliott, James D., Jr., see Norris-Caneda, Kim H.
 Ells, David H., and Richard L. Bunn, Caribou antlers as nest materials for Golden Eagles in northwestern Alaska, 268
 Ellis, Susie, see Bildstein, Keith L.
 Endangered species, 19–27
 Endemics, 3–18

- Energy intake, 195–201
 Estabrook, Tracy S., see Boal, Clint W.
 Estades, Cristian F., Stanley A. Temple, and Alvaro F. Gajardo, Unusual nesting of the Rufous-legged Owl?, 183
 Extra-pair copulation, 269–277

F

- Falco peregrinus*, 90–97, 143–150, 251–254, 261–264
 sparverius, 163–169, 178–180, 286–289
 Falcon, Peregrine, 90–97, 143–150, 251–254, 261–264
 Falconiformes, 19–27
 Falcons, 143–150
 Fargallo, Juan A., Guillermo Blanco, and Eduardo Soto-Largo, Forest management effects on nesting habitat selected by Eurasian Black Vultures (*Aegypius monachus*) in central Spain, 202–207
 Figueroa, Ricardo A., see Martinez, David R.
 Finn, Sean P., see Watson, James W.
 Florida, 98–103
 Food habits, 257–260, 297–305, 306–311
 Foraging ecology, 215–220
 habitat, 246–247
 success, 246–247
 Forest, old-growth, 104–110
 Forest management, 202–207
 Forrester, Donald J., see Foster, Garry W.
 Foster, Garry W., Joan L. Morrison, Christine S. Hartless, and Donald J. Forrester, *Haemoproteus tinnunculi* in Crested Caracaras (*Caracara plancus audubonii*) from southcentral Florida, 159–162
 Fry, D. Michael, see Stein, Robert W.

G

- Gajardo, Alvaro F., see Estades, Cristian F.
 Galushin, V. M., see Henny, C. J.
 Gamauf, Anita, see Preleuthner, Monika
 Garcelon, David K., see Delaney, David K.
 Georgia, 257–260
 Gerhardt, Richard P., see Seavy, Nathaniel E.
 Gilson, Lauren N., Evaluation of neck-mounted radio transmitters for use with juvenile Ospreys, 247–250
 Goshawk, Northern, 189–194, 297–305
 Pale Chanting, 195–201
 Grigera, Dora, see Trejo, A
 Grouse, 297–305
 Grubb, Teryl G., see Delaney, David K.
 Guatemala, 175–177
 Gutierrez, R. J., John E. Hunter, Gilberto Chavez-Leon, and John Price, Characteristics of Spotted Owl habitat in landscapes disturbed by timber harvest in northwestern California, 104–110

H

- Haak, Bruce, Review of *The Prairie Falcon*, by Stanley H. Anderson and John P. Squires, 1997, 74–75

- Habitat loss, 19–27
 selection, 104–110, 208–214
 use, 77–81, 90–97, 98–103, 312–314
- Haemoproteus tinnunculi*, 159–162
- Haliaeetus leucocephalus*, 120–125, 215–220
- Hare, 297–305
- Harpia harpyja*, 318–321
- Harpyhaliaetus coronatus*, 312–314
- Harrier, Montagu's, 136–142, 254–256, 269–277
 Northern, 116–119, 178–180
- Hartless, Christine S., see Foster, Garry W.
- Hawk, Cooper's, 281–285
 Red-shouldered, 257–260
 Red-tailed, 163–169, 178–180, 221–228
 Rough-legged, 178–180
- Hawk-eagle, Philippine, 126–135
- Hawks, 143–150
- Hays, David W., see Watson, James W.
- Hayward, Gregory D., see Wright Anthony L.
- Hematology, 163–169, 281–285
- Hematozoa, 163–169, 281–285
- Henny, C. J., V. M. Galushin, P. I. Dudin, A. V. Khrustov, A. L. Mischenko, V. N. Moseikin, V. S. Sarychev, and V. G. Turchin, Organochlorine pesticides, PCBs and mercury in hawk, falcon, eagle, and owl eggs from the Lipetsk, Voronezh, Novgorod, and Saratov regions, Russia, 1992–1993, 143–150
- Hieraetus fasciatus*, 208–214
- Highway mortality, 229–232
- Hodder, Kathy H., Robert E. Kenward, Sean S. Walls, and Ralph T. Clarke, Estimating core ranges: A comparison of techniques using the Common Buzzard (*Buteo buteo*), 82–89
- Howell, Doug L., and Brian R. Chapman, Prey brought to Red-shouldered Hawk nests in the Georgia Piedmont, 257–260.
- Hudelson, K. Stormy, see Boal, Clint W.
- Hungary, 264–266
- Hunter, John E., see Gutierrez, R. J.
- Hunting range, 111–115
- I
- Ictinia mississippiensis*, 246–247
- Idaho, 215–220
- Indian Ocean, western, 28–39
- Indonesia, 56–63
- Infrared photography, 290–296
- Injured raptors, 264–266
- Islands, 28–39
- J
- Jaksic, Fabian M., see Martinez, David R.
- Jenkins, Andrew R., and Grant A. Benn, Home range size and habitat requirements of Peregrine Falcons on the Cape Peninsula, South Africa, 90–97
- Johnson, Charles L., and Richard T. Reynolds, A new trap design for capturing Spotted Owls, 181–182
- Juvenile dispersal, 208–214
- survival, 195–201
- K
- Kaltenecker, Gregory S., Karen Steenhof, Marc J. Bechard, and James C. Munger, Winter foraging ecology of Bald Eagles on a regulated river in southwest Idaho, 215–220
- Keith, James O., and Richard L. Bruggers, Review of hazards to raptors from pest control in Sahelian Africa, 151–158
- Kennedy, Patricia L., Evaluating Northern Goshawk (*Accipiter gentilis atricapillus*) population status: a reply to Smallwood and Crocker-Bedford, 336–342
- Kenward, Robert E., see Hodder, Kathy H.
- Kestrel, American, 163–169, 178–180, 286–289
- Kitchens, Wiley M., see Valentine-Darby, Patricia L.
- Kite, Mississippi, 246–247
 Snail, 98–103
- Khrustov, A. V., see Henny, C. J.
- L
- Landscape, 104–110
- Leroux, Alain, see Arroyo, Beatriz.
- Letters, 183–184, 267–268, 322
- Locust control, 151–158
- Londei, Tiziano, Evidence of Spotted Kestrel (*Falco moluccensis*) nesting in the roofs of Sumba's traditional houses, 267
- Louse infestations, 264–266
- M
- Malan, Gerard, Solitary and social hunting in Pale Chanting Goshawk (*Melierax canorus*) families: Why use both strategies?, 195–201
- Mannan, R. William, see Boal, Clint W.
- Manosa, Santi, Joan Real, and Jordi Codina, Selection of settlement areas by juvenile Bonelli's Eagle in Catalonia, 208–214
- Manuscript referees, 76
- Marcelino, Favio N., see Bellocq, M. Isabel
- Marks, Jeffrey S., Ed., Book Reviews, 74–75, 185–187, 349–350
- Marks, Jeffrey S., A review of: A Field Guide to Birds of The Gambia and Senegal. By Clive Barlow and Tim Wacher, 1997, 186–187
- Marks, Jeffrey S., A review of: The Long-eared Owl, by Derick Scott, 1997, 349–350
- Martinez, David R., Ricardo A. Figueroa, Carmen L. Ocampo, and Fabian M. Jaksic, Food habits and hunting ranges of Short-eared Owls (*Asio flammeus*) in agricultural landscapes of southern Chile, 111–115

Massemin, Sylvie and Thierry Zorn, Highway mortality of Barn Owls in northeastern France, 229–232
 McClelland, B. Riley, David S. Shea, Patricia T. McClelland, and David A. Patterson, Size variation of migrant Bald Eagles at Glacier National Park, Montana, 120–125
 McClelland, Patricia T., see McClelland, B. Riley
 Measurements, 120–125
 Mediterranean, 254–256
 Meehan-Martin, Paul, see Watson, James W.
Melherax canorus, 195–201
 Mercury, 143–150, 251–254
 Migration, 3–18, 120–125
 Mischenko, A. L., see Henny, C. J.
 Mooney, Nick, Status and conservation of raptors in Australia's tropics, 64–73
 Morphology, 120–125, 126–135
 Morrison, Joan L., see Foster, Garry W.
 Moseikin, V. N., see Henny, C. J.
 Movement, 77–81
 Munger, James C., see Kaltenecker, Gregory S.

N

Necklace, 247–250
 Nests, 257–260
 artificial, 261–264
 Nest-site habitat, 189–194, 202–207
 Nesting, 261–264
 activity, 170–174
 density, 221–228
 distribution, 189–194
 habitat, 221–228
 type use, 233–240
 Nocturnal activity, 290–296
 Norris-Caneda, Kim H., and James D. Elliott, Jr., Sex identification in raptors using PCR, 278–280
 North Carolina, 251–254

O

Ocampo, Carmen L., see Martinez, David R.
 Olivetti, Giancarlo, see Pandolfi, Massimo
 Organochlorine pesticides, 143–150, 251–254
 Osprey, 247–250
Otus asio, 286–289
 Owl, Barn, 229–232
 Barred, 77–81
 Burrowing, 233–240, 241–245
 Eastern Screech, 286–289
 Great Horned, 306–311
 Long-eared, 170–174
 Mexican Spotted, 290–296
 Northern Spotted, 104–110
 Spotted, 181–182
 Short-eared, 111–115, 116–119
 Owls, 143–150

P

Pagliarani, Roberto, see Pandolfi, Massimo
Pandion haliaetus, 247–250
 Pandolfi, Massimo, Roberto Pagliarani, and Giancarlo Olivetti, Intra- and extra-pair copulations and female refusal of mating in Montagu's Harriers, 269–277
 Papp, Joseph M., see Stout, William E.
 Paraguay, 318–321
 Parasite, 159–162
 Patterson, David A., see McClelland, B. Riley.
 PCBs, 143–150
 PCR, 278–280
 Pellet egestion, 286–289
 Pennsylvania, 178–180
 Pesticides, 151–158
 Peten, 175–177
 Phenotypic plasticity, 136–142
 Philippines, 126–135
 Phthiraptera, 264–266
 Piedmont, 257–260
 Plasma biochemistry, 163–169
 Population density, 208–214
 Preleuthner, Monika and Anita Gamauf, A possible new subspecies of the Philippine Hawk-eagle (*Spizaetus philippensis*) and its future prospects, 126–135
 Prey, 257–260
 selection, 111–115
 size, 195–201
 Price, John, see Gutierrez, R. J.
 Priorities, 28–39

Q

Quelea control, 151–158

R

Radiotelemetry, 82–89, 98–103
 Range expansion, 77–81
 core, 82–89
 home, 82–89, 90–97
 Raptor populations, 40–55
 Raptors, 28–39, 151–158, 278–280
 tropical, 64–73
 Real, Joan, see Manosa, Santi
 Recapture, 181–182
 Reclaimed surface mine, 178–180
 Redig, Patrick T., see Tordoff, Harrison B.
 Rehabilitation centers, 264–266
 Research, 28–39
 Retention, 247–250
 Reynolds, Richard T., see Johnson, Charles L.
 Ritchie, Robert J., Terry J. Doyle, and John M. Wright, Peregrine Falcons (*Falco peregrinus*) nest in a quarry and on highway cutbanks in Alaska, 261–264
 Rivers, 215–220
 Rodent control, 151–158

Rohrbaugh, Ronald W., Jr., see Yahner, Richard H.
 Roost habitat, 116–119
 Rosenfield, Robert N., John Bielefeldt, Dale R. Trexel,
 and Thomas C. J. Doolittle, Breeding distribution
 and nest-site habitat of Northern Goshawks in Wis-
 consin, 189–194
Rostrhamus sociabilis, 98–103
 Rural, 221–228
 Russia, 143–150

S

Sabatini, Maria, see Bellocq, M. Isabel
 Sanchez-Zapata, Jose A., and Jose F. Calvo, Importance
 of birds and potential bias in food habit studies of
 Montagu's Harriers (*Circus pygargus*) in southeastern
 Spain, 254–256
 Sarychev, V. S., see Henny, C. J.
 Schelsky, Wendy, see Bildstein, K. L.
 Seasonal shifts, 98–103
 Seavy, Nathaniel E. and Richard P. Gerhardt, Breeding
 biology and nestling diet of the Great Black-Hawk,
 175–177
 Sequin, Jean-Francois, Patrick Bayle, Jean-Claude Thi-
 bault, Jose Torre, and Jean-Denis Vigne, A compar-
 ison of methods to evaluate the diet of Golden Ea-
 gles in Corsica, 314–318
 Sex identification, 278–280
 Shea, David S., see McClelland, B. Riley
 Sight record, 318–321
 Smallwood, K. Shawn, On the evidence needed for listing
 Northern Goshawks (*Accipiter gentilis*) under the en-
 dangered species act: a reply to Kennedy, 323–329
 Social hunting, 195–201
 Solt, Szabolcs, Lice (Phthiraptera: Amblycera, Ischno-
 cera) of raptors in Hungarian zoos and rehabilita-
 tion centers, 264–266
 Soto-Largo, Eduardo, see Fargallo, Juan A.
 South America, 19–27
 South Asia, 40–55
 Spain, 208–214
Speotyto cunicularia hypugaea, 233–240
Spizaetus philippensis, 126–135
 Status, 64–73
 diurnal birds of prey, 56–63
 Steenhof, Karen, see Kaltenecker, Gregory S.
 Stein, Robert W., Julie T. Yamamoto, D. Michael Fry, and
 Barry W. Wilson, Comparative hematology and plas-
 ma biochemistry of Red-tailed Hawks and American
 Kestrels wintering in California, 163–169
 Stout, William E., Raymond K. Anderson, and Joseph M.
 Papp, Urban, suburban and rural Red-tailed Hawk
 nesting habitat and populations in southeast Wiscon-
 sin, 221–228
 Strigiformes, 19–27
Strix occidentalis, 181–182
 occidentalis caurina, 104–110

occidentalis lucida, 290–296
varia, 77–81
 Subspecies, new, 126–135
 Suburban, 221–228
 Surveillance, 290–296

T

Temperate agroecosystems, 111–115
 Temple, Stanley A., see Estades, Cristian F.
 Thibault, Jean-Claude, see Sequin, Jean-Francois
 Thiollay, Jean-Marc, Current status and conservation of
 Falconiformes in tropical Asia, 40–55
 Tome, Davorin, Activity of incubating female Long-eared
 Owls as measured by fluctuations in nest tempera-
 tures, 170–174
 Tordoff, Harrison B., and Patrick T. Redig, Apparent sib-
 licide in Peregrine Falcons, 184
 Torre, Jose, see Sequin, Jean-Francois
 Transmitters, 247–250
 Trap, 181–182
 Trejo, Ana and Dora Grigera, Food habits of the Great
 Horned Owl (*Bubo virginianus*) in a patagonian
 steppe in Argentina, 306–311.
 Trexel, Dale R., see Rosenfield, Robert N.
 Tropical forest, 19–27
 Tropical raptors, 3–18
 Tropics, 3–18
 Turchin, V. G., see Henny, C. J.
Tyto alba, 229–232

U

Urban, 221–228

V

Valentine-Darby, Patricia L., Robert E. Bennetts, and Wi-
 ley M. Kitchens, Seasonal patterns of habitat use by
 Snail Kites in Florida, 98–103
 Video camera, 290–296
 Vigne, Jean-Denis, see Sequin, Jean-Francois
 Virani, Munir and Richard T. Watson, Raptors in the east
 African tropics and western Indian Ocean Islands:
 State of ecological knowledge and conservation sta-
 tus, 28–39
 Vulture, Eurasian Black, 202–207

W

W-chromosome, 278–280
 Walk, Jeffery W., Winter roost sites of Northern Harriers
 and Short-eared Owls on Illinois grasslands, 116–119
 Walls, Sean S., see Hodder, Kathy H.
 Washington, 297–305
 Watson, James W., David W. Hays, Sean P. Finn, and Paul
 Meehan-Martin, Prey of Northern Goshawks breed-
 ing in Washington, 297–305

Watson, Richard T., Preface: Conservation and Ecology of Raptors in the Tropics, 1-2

Watson, Richard T., see Virani, M.

White, Clayton M., A review of: A Fascination with Falcons: A Biologist's Adventures from Greenland to the Tropics. By Bill Burnham, 1997, 185-186

Wilderness, 77-81

Wiley, James W., Breeding-season food habits of Burrowing Owls (*Athene cunicularia*) in southwestern Dominican Republic, 241-245

Wilson, Barry W., see Stein, Robert W.

Wintering ecology, 215-220

Wischusen, E. William, Rates of open-field foraging by the Mississippi Kite (*Ictinia mississippiensis*), 246-247

Wright, Anthony L., and Gregory D. Hayward, Barred owl range expansion into the central Idaho wilderness, 77-81

Wright, John M., see Ritchie, Robert J.

X

Xirouchakis, Stavros, Dust bathing in the Bearded Vulture (*Gypaetus barbatus*), 322

Y

Yahner, Richard H., and Ronald W. Rohrbaugh, Jr., A comparison of raptor use of reclaimed surface mines and agricultural habitats in Pennsylvania, 178-180

Yamamoto, Julie T., see Stein, Robert W.

Z

Zalles, Jorje, see Bildstein, K. L.

Zorn, Thierry, see Massemin, Sylvie.