

INDEX TO VOLUME 101, 1989

BY KATHLEEN G. BEAL

This index includes references to genera, species, authors, and key words or terms. In addition to avian species, references are made to the scientific names of all vertebrates mentioned within the volume and other taxa mentioned prominently in the text. Common names are as they appear in the volume unless otherwise specified. Reference is made to books reviewed, and announcements as they appear in the volume.

- Abrocoma bennetti*, 385
Accipiter gentilis, 637-639
 nisus, 274
 spp., 617
 striatus, 606
Actitis macularia, 130
Aegolius acadicus, 275
 funereus, 486-491
Aegotheles savesi, 177
age
 relationship of cranial pneumatization,
 bursa size, and body size in *Phalacrocoracidae*, 108-112
Agelaius icterocephalus, 62-76
 phoenicius, 53, 599-605
aging
 of *Haliaeetus leucocephalus*, 1-10
Agelaiocercus coelestis, 477-481
 spp., 480
Aix sponsa, 142, 623, 625
Ajaia ajaia, 436-457
Akialoa, Lanai, see *Hemignathus lanaiensis*
Akodon olivaceus, 385
 sp., 385
Alcock, John, The Kookaburras' song: exploring animal behavior in Australia, reviewed, 661-662
Alopex lagopus, 580
Aluco spp., 635
Amadon, Dean, and John Bull, Hawks and owls of the world: a distribution and taxonomic list, reviewed, 667-668
Amadon, Dean, review by, 667-668
Amazilia luciae, 642-643
 rutila, 642, 643
 violiceps, 559-578
Ammodramus aurifrons, 62-76
 humeralis, 62-76
Anairetes parulus, 385
Anas aucklandica, 411
 clypeata, 390-409
 discors, 115
 platyrhynchos, 503-505
Andelt, William F., see Schmutz, Joel A., Clait E. Braun, and ———
Andrews, P., see Collar, N. J., and ———
Andrews, Robert W., see Cruz, Alexander, and ———
Anhinga, see *Anhinga anhinga*
Anhinga anhinga, 102
Annet, Alpine, see *Curruca collaris*
announcements
 Hawk Mountain-Zeiss raptor research award, 367
 information for authors, 157-158, 523
 North American Loon Fund grants, 523-524
annual report, 674-684
Anthus lutescens, 62-76
Aphriza virgata, 137-141
Aplonis mavornata, 177
Apus apus, 480
Aquila chrysaetos, 3, 9
Aratinga aurea, 656-657
 canicularis, 656
 leucophthalmus, 656
Archilochus alexandri, 477-481, 559-578
 colubris, 610, 618
Ardea herodias, 436, 437
 herodias occidentalis, 436-457
 [pealii] *rufescens*, 436-457
Arenaria interpres, 398, 653
 melanocephala, 140
Arremonops chloronotus, 643
Arundinicola leucocephala, 62-76
Asio flammeus, 486-491
 otus, 481-485, 486-491
Athene noctua, 486-491

- Atwood, Jonathan L., Speciation and geographical variation in Black-tailed Gnatcatchers, reviewed, 360–362
- Avocet, American, see *Recurvirostra americana*
- Baird, James, review by, 671
- Baldassarre, Guy A., see Markum, Darrell E., and ———
- Baltosser, William H., Nectar availability and habitat selection by hummingbirds in Guadalupe Canyon, 559–578
- Bananaquit, see *Coerba flaveola*
- Banks, Richard C., Obsolete English names of North American birds and their modern equivalent, reviewed, 672
- Banks, Richard C., review by, 360–362
- Baptista, Luis F., see DeSante, David F., and ———
- Barn-Owl, Common, see *Tyto alba*
- Basiluterus culicivorus*, 390–409
- Bechard, Marc J., review by, 510–511
- Becker, Jonathan J., Neogene avian localities of North America, reviewed, 148
- Bedard, Jean, see Turcotte, Yves, and ———
- Beehler, Bruce A., Thane K. Pratt, and Dale A. Zimmerman, Birds of New Guinea, reviewed, 148–151
- behavior
- aggression
 - in polygynous female *Dendroica petechia*, 84–86
 - anti-predator
 - nest defense in *Pluvialis dominica dominica*, 579–590
 - brood amalgamation
 - by *Anas platyrhynchos*, 503–505
 - communal roost
 - use by *Haliaeetus leucocephalus*, 626–633
 - dominance
 - in Paridae, 254–262
 - egg dumping
 - by *Troglodytes aedon* in nest of *Dendroica petechia*, 491–493
 - egg laying
 - by *Molothrus ater*, 599–605
 - floaters
 - in *Parus atricapillus*, 344–349
 - food sharing
 - by sibling *Tyto alba*, 132–134
 - food storing
 - in Paridae, 289–304
 - gaping
 - in Trochilidae, 477–481
 - incubation
 - in *Coenocorypha aucklandica huegeli*, 127–132
 - parental care
 - by male *Tyrannus tyrannus*, 462–467
 - of *Chen caerulescens atlantica*, 500–503
 - relative contribution of sexes in *Sterna dougallii* and *Sterna hirundo*, 497–500
 - piracy
 - by *Haliaeetus leucocephalus*, 494–496
 - by *Larus delawarensis* on *Calidris alpina*, 96–97
 - polyandry
 - in *Parus atricapillus*, 351–353
 - polygyny
 - in *Dendroica petechia*, 84–86
 - in *Falco columbarius*, 506–507
 - releaser
 - of gaping in Trochilidae, 477–481
 - site fidelity
 - in *Lanius ludovicianus*, 458–460
 - social
 - of *Psarocolius oseryi*, 134–137
 - vocal
 - of *Vermivora chrysoptera*, 36–50
 - songs of warblers at dawn and dusk, 26–35
- Beletsky, Les D., see Orians, Gordon H., Eivin Roskaft, and ———
- Benitez, Manuel, see Thurber, Walter A., J. Francisco Serrano, Alfonso Sermeno, and ———
- Bennett, Alan J., and Laurel A. Bennett, Wintering population of Greater Sandhill Cranes in the Okefenokee Swamp, Georgia, 87–93
- Bennett, Laurel A., see Bennett, Alan J., and ———
- Bildstein, Keith L., review by, 513–514
- Bittern, Least, see *Ixobrychus exilis*
- Bjork, Robin D., see Powell, George V. N., ———, John C. Ogden, Richard T. Paul, A. Harriet Powell, and William B. Robertson, Jr.
- Blackbird, Austral, see *Curaeus curaeus*
- Red-winged, see *Agelaius phoeniceus*

- Yellow-hooded, see *Agelaius icterocephalus*
- Bledsoe, Anthony H., Response to Siegel-Causey, 157
- Bledsoe, Anthony H., review by, 152–153
- Blem, C. R., reviews by, 151–152, 153–154
- Blockstein, David E., Crop milk and clutch size in Mourning Doves, 11–15
- Bluebird, Eastern, see *Sialia sialis*
- bluebird, see *Sialia* spp.
- Bobolink, see *Dolichonyx oryzivorus*
- Bobwhite, Black-throated, see *Colinus nigrogularis*
- Northern, see *Colinus virginianus*
- Spot-bellied, see *Colinus leucopogon*
- Boiga irregularis, 472
- Boland, Stephen P., Jeffrey A. Halstead, and Bradley E. Valentine, Willow Flycatcher nestling parasitized by larval fly, *Protocalliphora cuprina*, 127
- Bolborhynchus ferrugineifrons, 373
- Bombycilla cedrorum, 610
- Bonasa umbellus, 126, 556
- Booby, Red-footed, see *Sula sula*
- Boos, John D., Thomas D. Nudds, and Kjell Sjöberg, Posthatch brood amalgamation by Mallards, 503–505
- Bortolotti, Gary R., see Gerrard, John M., and ———
- Bosakowski, Thomas, Richard Kane, and Dwight G. Smith, Decline of the Long-eared Owl in New Jersey, 481–485
- Brakehopper, Sibilous, see *Locustella sibilatrix*
- Branta leucopsis, 500
- Brassler, Helga, Bibliographie ornithologischer bibliographien II. Aves. Bibliography of ornithological bibliographies II, reviewed, 155–156
- Braun, Clait E., see Schmutz, Joel A., ———, and William F. Andelt
- breeding
- biology
- chick feeding by *Sterna hirundo* and *Sterna dougallii*, 497–500
- inbreeding in *Pandion haliaetus*, 124–126
- incubation in *Coenocorypha aucklandica huegeli*, 127–132
- mate loss in *Grus canadensis pratensis*, 648–651
- of *Cairina moschata*, 621–626
- of passerines in a Venezuelan savanna, 62–76
- of *Protonotaria citrea*, 51–61
- records
- of *Mergus merganser* in southeastern United States, 141–143
- season
- of *Zonotrichia leucophrys nuttalli*, 120–124
- records of *Dendroica kirtlandii*, 545–558
- strategy
- of floaters in *Parus atricapillus*, 344–349
- Briggs, Kenneth T., William Breck Tyler, David B. Lewis, and David R. Carlson, Bird communities at sea off California: 1975–1983, reviewed, 659–661
- Brigham, R. Mark, Effects of radio transmitters on the foraging behavior of Barn Swallows, 505–506
- Brilliant, Black-throated, see *Heliodoxa [Ionolaima] schreibersii*
- Empress, see *Heliodoxa imperatrix*
- Fawn-breasted, see *Heliodoxa [Phaiolaima] rubinoides*
- Green-crowned, see *Heliodoxa [Agapeta] jacula*
- Pink-throated, see *Heliodoxa gularis*
- Rufous-webbed, see *Heliodoxa [Lampraster] branickii*
- Velvet-browed, see *Heliodoxa xanthogonyx*
- Violet-fronted, see *Heliodoxa leadbeateri*
- Brown, Roy, John Ferguson, Michael Lawrence, and David Lee, Tracks and signs of the birds of Britain and Europe, reviewed, 672
- Browning, M. Ralph, The correct name for the Olivaceous Cormorant, “Maia-gue” of Piso (1658), 101–106
- Bubo bubo, 486–491
- virginianus, 484, 486
- Bucco macrorhynchus, 390–409
- Bucephala albeola, 418
- clangula, 418
- islandica, 418
- spp., 410, 412, 418
- Bulbucus ibis, 437
- Bull, John, see Amadon, Dean, and ———

- Bunting, Indigo, see *Passerina cyanea*
 Snow, see *Plectrophenax nivalis*
- Burchsted, Albert E., and Grace Chambers,
 Loggerhead Kingbirds feeding on *Sesarma*
crabs, 507–508
- Burn, Hilary, see Madge, Steve, and

- bursa of Fabricius
 relationship to cranial pneumatization in
Phalacrocoracidae, 108–112
- Buteo albicaudatus*, 390–409
albonotatus, 390–409
jamaicensis, 484
- Butorides striatus*, 437
- Byrkjedal, Ingvar, Nest defense behavior of
 Lesser Golden-Plovers, 579–590
- Byrkjedal, Ingvar, Nest habitat and nesting
 success of Lesser Golden-Plovers,
 93–96
- Cacicus cela*, 62–76, 136
- Cacique, Yellow-rumped, see *Cacicus cela*
- Cairina moschata*, 621–626
- Calcarius lapponicus*, 350
- Calidris alpina*, 96–97
himantopus, 390–409
mauri, 130, 398
minutilla, 115, 398
pusilla, 398
- Callipepla californica*, 385
- Calothorax lucifer*, 562–563
- Calypte anna*, 477–481
costae, 559–578
- Calyptorhynchus* spp., 656
- Camptorhynchus labradorius*, 418
- Camptostoma imberbe*, 642
- Campylorhynchus griseus*, 62–76
- canary, see *Emberiza serin*
- Cardinal, Northern, see *Cardinalis cardinalis*
- Cardinalis cardinalis*, 607, 610, 615, 618
- Carduelis flammea*, 350
- Carlson, David R., see Briggs, Kenneth T.,
 William Breck Tyler, David B. Lewis,
 and _____
- Carpodacus purpureus*, 609–610
- Casmerodius albus*, 115, 437
- Catbird, Gray, see *Dumetella* [*Lucar*] *carolinensis*, [*Muscicapa carolinensis*], and
 [*Galeoscoptes carolinensis*]
- Catharacta skua*, 431
- Cathartes aura*, 639–640
burrovianus, 390–409
- Catharus fuscescens*, 390–409
guttatus, 610
minimus, 390–409
ustulatus, 390–409, 610
- Catoptrophorus semipalmatus*, 115
- Certhia familiaris*, 275
- Certhiaxis cinnamomea*, 62–76
- Chaetoptila angustipluma*, 177
- Chaffinch, see *Fringilla coelebs*
- Chambers, Grace, see Burchsted, Albert E.,
 and _____
- Chandler, William J., ed., Audubon wildlife
 report 1988/1989, reviewed, 522
- Chapman, Brian R., review by, 517–518
- Charadrius alexandrinus*, 130, 390–409
semipalmatus, 390–409
wilsonia, 130
- Chen caerulescens atlantica*, 500–503
caerulescens caerulescens, 500
- Chickadee, Black-capped, see *Parus atrica-*
pillus
 Boreal, see *Parus hudsonicus*
 Carolina, see *Parus carolinensis*
 Chestnut-backed, see *Parus rufescens*
 Mexican, see *Parus sclateri*
 Mountain, see *Parus gambeli*
- Chilia*, Crag, see *Chilia melanura*
- Chilia melanura*, 385
- Chilidonias niger*, 390–409
- Chlorestes notatus*, 477–481
- Chlorostilbon canivetti*, 643
- Christensen, S., see Hollom, P. A. D., R. F.
 Porter, _____, and Ian Willis
- Cinclodes*, Dark-bellied, see *Cinclodes pata-*
gonicus
- Cinclodes patagonicus*, 383
- Circus cyaneus*, 580, 584, 588
- Ciridops anna*, 177
- Clangula hyemalis*, 112–114, 418
 spp., 410, 412
- Clark, Neal, Birds on the move; a guide to
 New England's avian invaders, 671
- Clark, William S., and Brian K. Wheeler, A
 field guide to hawks of North Amer-
 ica, reviewed, 354–357
- Clench, Mary H., review by, 511–512
- Clevelandia los*, 96
 clutch size
 in *Parus major*, 236–253
 in *Zenaida macroura*, 11–25
- Clytolaema* spp., 527

- Cobb, David T., Philip D. Doerr, and Michael H. Seamster, Above-ground nesting by Wild Turkeys, 644–645
- Coccythraustes vespertinus*, 610
- Coccyzus americanus*, 606, 609–611, 618
- erythrophthalmus*, 390–409
- Coeligena coeligena*, 477–481
- Coenocorypha aucklandica huegeli*, 127–132
- Coereba flaveola*, 62–76, 390–409
- flaveola caboti*, 406
- Coffey, Ben B., Jr., see Hardy, J. W., and ———
- Colaptes auratus*, 610
- pitius*, 383
- Cole, Jeffery, see Remsen, J. V., Jr., Mark Ellerman, and ———
- Cole, Jeffery, see Sullivan, Kimberly A., ———, and Ethel M. Villalobos
- Colibri coruscans*, 477–481
- Colinus leucopogon*, 643
- nigrogularis*, 390–409
- virginianus*, 640–641
- Collar, N. J., and P. Andrews, eds., Birds to watch. The ICBP world checklist of threatened birds, reviewed, 365
- Colorhamphus parvirostris*, 385
- Columba cayennensis*, 390–409
- leucocephala*, 390–409
- livia*, 20, 384, 617
- nigrirostris*, 390–409
- palumbus*, 22–23
- Columbina minuta*, 62–76
- competition
- and evolution in *Parus* sp., 198–216
- Conopias inornata*, 62–76
- Contopus virens*, 26, 77–83
- Coot, American, see *Fulica americana*
- coot, see *Fulica* spp.
- Coragyps atratus*, 639–640
- Cormorant, Black-faced, see *Phalacrocorax fuscescens*
- Brandt's, see *Phalacrocorax penicillatus*
- Cape, see *Phalacrocorax capensis*
- Double-crested, see *Phalacrocorax auritus*
- Great, see *Phalacrocorax carbo*
- Little Black, see *Phalacrocorax sulcirostris*
- Little Pied, see *Phalacrocorax melanoleucos*
- Olivaceous, see *Phalacrocorax olivaceus*
- Pelagic, see *Phalacrocorax pelagicus*
- Pied, see *Phalacrocorax varius*
- Reed, see *Phalacrocorax africanus*
- Socotra, see *Phalacrocorax nigrogularis*
- Corvum aquaticum*, 103
- Corvus aquaticus*, 101
- brachyrhynchus*, 495, 580, 588
- corax*, 580, 588
- corone cornix*, 503
- kubaryi*, 472
- Cowbird, Brown-headed, see *Molothrus ater*
- Giant, see *Scaphidura oryzivora*
- Shiny, see *Molothrus bonariensis*
- Crane, Florida Sandhill, see *Grus canadensis pratensis*
- Greater Sandhill, see *Grus canadensis tabida*
- Sandhill, see *Grus canadensis*
- Cranioleuca vulpina*, 62–76
- Crenshaw, John G., and B. Riley McClelland, Bald Eagle use of a communal nest, 626–633
- crop milk
- in *Zenaida macroura*, 11–25
- Crossbill, Parrot, see *Loxia pytyopsittacus*
- Red, see *Loxia curvirostra*
- Crow, American, see *Corvus brachyrhynchus*
- Hooded, see *Corvus corone cornix*
- Mariana, see *Corvus kubaryi*
- Cruz, Alexander, and Robert W. Andrews, Observations on the breeding biology of passerines in a seasonally flooded savanna in Venezuela, 62–76
- Crypturellus cinnamomeus*, 643
- Cuckoo, Black-billed, see *Coccyzus erythrophthalmus*
- Striped, see *Tapera naevia*
- Yellow-billed, see *Coccyzus americanus*
- Curaeus curaesus*, 384–385
- Curruca collaris*, 634
- Cyanocitta cristata*, 609
- Cyanocorax yncas*, 642–643
- Cygnus olor*, 500, 648
- Cynanthus latirostris*, 559–578
- Cypseloides rutilus*, 643
- Davis, William E., Jr., reviews by, 516–517, 661–662
- DeCapita, Michael E., see Sykes, Paul W., Jr., Cameron B. Kepler, David A. Jett, and ———
- Dendrocolaptes certhia*, 390–409

- Dendrocygna autumnalis*, 624
 bicolor, 390–409
- Dendroica caerulescens*, 390–409
 castanea, 615
 coronata, 26–35, 115, 610, 646
 discolor, 552
 dominica, 116
 fusca, 26–35
 graciae, 36, 49
 kirtlandii, 116, 545–558
 magnolia, 26–35, 77–83
 pennsylvanica, 36, 47, 77–83
 petechia, 36, 84–86, 491–493
 spp., 537
 striata, 612
 tigrina, 115, 390–409
 virens, 26–35, 36, 47, 612
- Dennis, John V., The great cypress swamps, reviewed, 672
- Densirostra enucleator*, 634
- DeSante, David F., and Luis F. Baptista, Factors affecting the termination of breeding in Nuttall's White-crowned Sparrows, 120–124
- Desrochers, Andre, see Waterman, Jane, ———, and Susan Hannon
- Dhondt, Andre A., Ecological and evolutionary effects of interspecific competition in tits, 198–216
- Diamond, A. W., and F. L. Filion, eds., The value of birds, reviewed, 511–512
- Diamond, A. W., ed., Studies of Mascarene Island birds, reviewed, 152–153
- diet
 of *Aphriza virgata*, 137–141
 of *Glaucidium nanum*, 377–389
Parus hudsonicus eats ash high in calcium, 349–351
- dimorphism
 in owls, 486–491
- Diuca diuca*, 384–385
- Diuca*-Finch, Common, see *Diuca diuca*
- Diucon, Fire-eyed, see *Pyrope pyrope*
- Dobkin, David S., see Ehrlich, Paul R., ———, and Darryl Wheye
- Doerr, Philip D., see Cobb, David T., ———, and Michael H. Seamster
- Dolichonyx oryzivorus*, 390–409, 458
- Dotterel, Eurasian, see *Eudromias morinellus*
- Dove, Eared, see *Zenaida auriculata*
- Mourning, see *Zenaida macroura*
- Rock, see *Columba livia*
- Duck, Harlequin, see *Histrionicus histrionicus*
- Labrador, see *Camptorhynchus labradorius*
- Masked, see *Oxyura dominica*
- Muscovy, see *Cairina moschata*
- Wood, see *Aix sponsa*
- Dumetella* [Lucar] *carolinensis*, 115, 458, 610, 633–637
 felivox, 635
- Dunlin, see *Calidris alpina*
- Dysmorodrepanis munroi*, 159–179 (Frontispiece)
- Eagle, Bald, see *Haliaeetus leucocephalus*
- Golden, see *Aquila chrysaetos*
- White-tailed, see *Haliaeetus albicilla*
- Egret, Cattle, see *Bubulcus ibis*
- Great, see *Casmerodius albus*
- Peale's, see *Egretta* [*Ardea pealii*] *rufescens*
- Reddish, see *Egretta rufescens*
- Snowy, see *Egretta thula*
- Egretta* [*Ardea pealii*] *rufescens*, 436–457
 caerulea, 115, 437
 thula, 115, 437, 446
- Ehrlich, Paul R., David S. Dobkin, and Darryl Wheye, The birder's handbook: a field guide to the natural history of North American birds, reviewed, 153–154
- Eider, Common, see *Somateria mollissima*
- Ekman, Jan, Ecology of non-breeding social systems of *Parus*, 263–288
- Elaenia albiceps*, 384
 flavogaster, 402
 martinica, 390–409
- Elaenia*, Caribbean, see *Elaenia martinica*
- Greenish, see *Myiopagis viridicata*
- White-crested, see *Elaenia albiceps*
- Yellow-bellied, see *Elaenia flavogaster*
- Elanus caeruleus*, 390–409
- Ellerman, Mark, see Remsen, J. V., Jr., ———, and Jeffrey Cole
- Emberiza serin*, 384
- Emberizoides herbicola*, 62–76
- Emerald, Fork-tailed, see *Chlorostilbon canivetii*
- Honduran, see *Amazilia luciae*
- Empidonax difficilis*, 127

- flaviventris, 390-409
 minimus, 402
 oberholseri, 127
 traillii, 127
 virescens, 390-409
- Erard, Christian, *Ecologie et comportement des Gobe-Mouches (Aves: Muscicapinae, Platysteirinae, Monarchinae du Nord-est du Gabon). Volume I: morphologie des especes et organization du peuplement*, reviewed, 669-670
- Eriocnemis luciana, 477-481
 spp., 537
- erratum, 353, 434
- Esker, Terry, see Westermeier, Ronald L., ———, and Scott A. Simpson
- Eudocimus albus, 437, 446
- Eudromias morinellus, 130
- evolution
 and interspecific competition in Paridae, 198-216
 of Paridae, 182-197
 of reversed sexual dimorphism in owls, 486-491
- Falco columbarius, 390-409, 506-507
 peregrinus, 390-409
 sparverius, 507
- Falcon, Peregrine, see Falco peregrinus
- Ferguson, John, see Brown, Roy, ———, Michael Lawrence, and David Lee
- Ficedula hypoleuca, 52, 250
- Ficken, Millicent Sigler, Boreal Chickadees eat ash high in calcium, 349-351
- Ficken, Millicent Sigler, see Gill, Frank B., and ———
- Filion, F. L., see Diamond, A. W., and ———
- Finch, Purple, see Carpodacus purpureus
 Saffron, see Sicalis flaveola
- Firecrown, Green-backed, see Sephanoides galeritus
- Flake, Lester D., see Howe, Frank P., and ———
- Flamingo, Greater, see Phoenicopterus ruber
- Flicker, Chilean, see Colaptes pitius
 Northern, see Colaptes auratus
- Fluvicola pica, 62-76
- Flycatcher, Acadian, see Empidonax virescens
 Brown-crested, see Myiarchus tyrannulus
- Dusky, see Empidonax oberholseri
- Fork-tailed, see Tyrannus savana
- Great Crested, see Myiarchus crinitus
- Least, see Empidonax minimus
- Pied, see Ficedula hypoleuca
- Piratic, see Legatus leucophaeus
- Sepia-capped, see Leptopogon amaurocephalus
- Vermilion, see Pyrocephalus rubinus
- Western, see Empidonax difficilis
- Willow, see Empidonax traillii
- Yellow-bellied, see Empidonax flaviventris
- food
 effect of abundance on breeding Zonotrichia leucophrys nuttalli, 120-124
 nectar availability and habitat selection by hummingbirds, 559-578
 of wintering Mimus polyglottos, 97-101
 storing in Paridae, 289-304
- foraging behavior
 dead-leaf-searching by wintering Vermivora celata, 645-648
 Haliaeetus leucocephalus kill Fulica americana, 494-496
 insectivorous habits of Aratinga aurea, 656-657
 of Chen caerulescens atlantica, 500-503
 of Hirundo rustica affected by radio transmitters, 505-506
 of Pica pica and Falco sparverius, 507
 Tyrannus caudifasciatus feeding on Sesarma crabs, 507-508
- Forest-Falcon, Collared, see Micrastur semitorquatus
- Fowl, Domestic, see Gallus domesticus
- fox, Arctic, see Alopex lagopus
 red, see Vulpes vulpes
- Fringilla coelebs, 210
- Fulica americana, 494-496
 spp., 428
- Fuller, Errol, *Extinct birds*, reviewed, 154-155
- Funk David., H., see Gill, Frank B., ———, and Bengt Silvern
- Furness, Robert W., *The skuas*, reviewed, 146-147
- Galeoscoptes carolinensis, 633
- Gallinago gallinago, 390-409
- Gallinula chloropus, 508-509
- Gallus domesticus, 384

- Gaunt, Sandra L. L., and Andrew D. Thompson, Jr., review by, 364–365
genetic relationships
 in the genus *Heliodoxa*, 525–544
 of *Paridae*, 182–197
- Geothlypis trichas, 77–83, 116, 610
- Geotrygon montana, 390–409
- Gerrard, Jon M., and Gary R. Bortolotti,
 The Bald Eagle: haunts and habits of
 a wilderness monarch, reviewed, 512–
 513
- Gerwin, John A., and Robert M. Zink, Phy-
logenetic patterns in the genus *Helio-*
doxa (Aves: Trochilidae): an allozy-
matic perspective, 525–544
- Gill, Frank B., and Millicent Sigler Ficken,
 Comparative biology and evolution
 of titmice: the centennial symposium
 of the Wilson Ornithological Society,
 180–181
- Gill, Frank B., David H. Funk, and Bengt
 Silverin, Protein relationships among
 titmice (*Parus*), 182–197
- Glaucidium brasilianum*, 378–379, 382, 642
 gnoma, 275
 jardinii, 378
 nanum, 377–389
 passerinum, 275, 307, 486–491
- Glaucis hirsuta*, 477–481
- Gnatcatcher, White-lored, see *Polioptila al-*
biloris
- goby, arrow, see *Clevelandia los*
- Godwit, Hudsonian, see *Limosa haemastica*
 Marbled, see *Limosa fedoa*
- Goldcrest, see *Regulus regulus*
- goldeneye, see *Bucephala* spp.
- Golden-Plover, Greater, see *Pluvialis apr-*
caria
 Lesser, see *Pluvialis dominica*
 Pacific, see *Pluvialis [dominica] fulva*
- Goose, Barnacle, see *Branta leucopsis*
- Greater Snow, see *Chen caerulescens at-*
lantica
 Lesser Snow, see *Chen caerulescens caeru-*
lescens
- gopher, pocket, see *Thomomys talpoides*
- Goriup, Paul D., ed., Ecology and conser-
vation of grassland birds, reviewed,
668–669
- Goshawk, Northern, see *Accipiter gentilis*
- Goudie, R. Ian, Historical status of Harle-
quin Ducks wintering in eastern North
America—a reappraisal, 112–114
- Grackle, Boat-tailed, see *Quiscalus major*
 Common, see *Quiscalus quiscula*
- Gratson, Michael W., Intraspecific nest par-
asitism by Sharp-tailed Grouse, 126–
127
- Graves, Gary R., and Daniel Uribe Restre-
po, A new allopatric taxon in the *Hap-*
alopsittaca amazonina (*Psittacidae*)
 superspecies from Colombia, 369–376
- Greeley, Fred, review by, 144–146
- Grosbeak, Evening, see *Coccothraustes ves-*
pertinus
 Rose-breasted, see *Pheucticus ludovici-*
anus
- Ground-Cuckoo, Lesser, see *Morococcyx*
erythropygus
- Grouse, Ruffed, see *Bonasa umbellus*
 Sharp-tailed, see *Tympanuchus phasi-*
anellus
- Grus canadensis*, 648
 canadensis pratensis, 87, 648–651
 tabida, 87–93
- Gull, Bonaparte's, see *Larus philadelphia*
 Greater Black-backed, see *Larus marinus*
 Herring, see *Larus argentatus*
 Laughing, see *Larus atricilla*
 Ring-billed, see *Larus delawarensis*
 Western, see *Larus occidentalis*
- Gymnomystax mexicanus*, 62–76
- Gypopsitta* sp., 373
- Haas, Carola A., and Sarah A. Sloane, Low
 return rates of migratory Loggerhead
 Shrikes: winter mortality or low site
 fidelity, 458–460
- habitat
 edge effect
 on passerine density and richness in
 Maine, 77–83
 savanna
 breeding Venezuelan passerines, 62–76
 selection
 by *Amazilia luciae*, 642–643
 by hummingbirds in Guadalupe Can-
 yon, 559–578
- Haematopus bachmani*, 140
- Haftorn, Svein, Seasonal and diurnal body

- weight variations in titmice, based on analyses of individual birds, 217–235
- Hailman, Jack P., The organization of major vocalizations in the Paridae, 305–343
- Halcyon cinnamomina cinnamomina, 472–477
- Haliaeetus albicilla, 9
- leucocephalus, 1–10 (Frontispiece), 494–496, 626–633
- Hall, George A., reviews by, 154–155, 155–157, 365, 366–367, 522, 672–673
- Halstead, Jeffrey A., see Boland, Stephen P., ———, and Bradley E. Valentine
- Hannon, Susan, see Waterman, Jane, Andre Desrochers, and ———
- Hapalopsittaca amazonina, 369–376 (Frontispiece)
- amazonia theresae, 369–376 (Frontispiece)
- amazonina velezi, 369–376 (Frontispiece)
- fuertesi, 369–376 (Frontispiece)
- melanotis, 372–373
- pyrrhops, 369–376 (Frontispiece)
- Haplophaedia aureliae, 477–481 spp., 537
- Hardy, J. W., and Ben Coffey, Jr., Voices of the wrens. Family Troglodytidae, reviewed, 364–365
- hare, snowshoe, see *Lepus americanus*
- Harrier, Northern, see *Circus cyaneus*
- Hawk, Red-tailed, see *Buteo jamaicensis*
- Sharp-shinned, see *Accipiter striatus*
- White-tailed, see *Buteo albicaudatus*
- Zone-tailed, see *Buteo albonotatus*
- Hawk-Eagle, Black, see *Spizeastus tyrannus*
- Black-and-white, see *Spizastur melano-leucus*
- Hayes, Patricia A., and Raleigh J. Robertson, The impact of male parental care on female Eastern Kingbird reproductive success, 462–467
- Heliodoxa [*Agapeta*] gularis, 525–544
- [*Eugenia*] imperatrix, 526–527, 539
- [*Ionolaima*] shreibersii, 525–544
- jacula, 525–544
- [*Lampraster*] branickii, 525–544
- leadbeateri, 525–544
- [*Phaiolaima*] rubinoides, 525–544
- xanthogonys, 525–544
- Heliornis fulica, 390–409
- Helmitheros vermivorus, 646
- Hemignathus lanaiensis, 177
- lichtensteini, 177
- spp., 160
- Hermit, Little, see *Phaethornis longuemareus*
- Heron, Great Blue, see *Ardea herodias*
- Great White, see *Ardea herodias occidentalis*
- Green-backed, see *Butorides striatus*
- Little Blue, see *Egretta caerulea*
- Highsmith, R. Tod, The singing behavior of Golden-winged Warblers, 36–50
- Himantopus mexicanus, 115, 398
- Hirundo rustica, 492, 505–506
- history
- of genus *Dumetella*, 633–637
- Histrionicus histrionicus*, 112–114, 418
- spp., 418
- Hobson, Keith A., and Spencer G. Sealy, Female-female aggression in polygynously nesting Yellow Warblers, 84–86
- Hobson, Keith A., Pebbles in nests of Double-crested Cormorants, 107–108
- Hogstad, Olav, Social organization and dominance behavior in some *Parus* species, 254–262
- Hollom, P. A. D., R. F. Porter, S. Christensen, and Ian Willis, Birds of the Middle East and North Africa: a companion guide, reviewed, 663–664
- Hosking, David, see Hosking, Eric, and ———
- Hosking, Eric, and David Hosking, Eric Hosking's birds of prey of the world, reviewed, 513–514
- Howe, Frank P., and Lester D. Flake, Nesting ecology of Mourning Doves in a cold desert ecosystem, 467–472
- Howe, William H., Daniel M. Taylor, and David A. Jett, Additional records of birds from Cat Island, Bahamas, 115–117
- Howell, Steve N. G., and Sophie Webb, Notes on the Honduran Emerald, 642–643
- Hudson, William H., The bird biographies of W. H. Hudson, reviewed, 518–519
- Hummingbird, Black-chinned, see *Archilochus alexandri*

- Blue-throated, see *Lampornis clemenciae*
 Broad-billed, see *Cyanthus latirostris*
 Broad-tailed, see *Selasphorus platycercus*
 Cinnamon, see *Amazilia rutila*
 Costa's, see *Calypte costae*
 Lucifer, see *Calothorax lucifer*
 Ruby-throated, see *Archilochus colubris*
 Rufous, see *Selasphorus rufus*
 Violet-crowned, see *Amazilia violiceps*
 Wedge-billed, see *Schistes geogroyi*
 Hunter, Malcolm L., Jr., see Small, Mary F.,
 and ———
Hylocichla mustelina, 77–83, 610
Hylophilus spp., 535
Icterus galbula, 116, 492
 galbula galbula, 116
 icterus, 62–76
 nigrogularis, 62–76
Ixobrychus exilis, 390–409, 437
Jabiru mycteria, 390–409
 Jabiru, see *Jabiru mycteria*
 Jaeger, Parasitic, see *Stercorarius parasiticus*
 Jaksic, Fabian M., see Jimenez, Jaime E.,
 and ———
 James, Helen F., Richard L. Zusi, and Storrs
 L. Olson, *Dysmorodrepanis munroi*
 (Fringillidae: Drepanidini), a valid
 genus and species of Hawaiian finch,
 159–179
 Jay, Blue, see *Cyanocitta cristata*
 Gray, see *Perisoreus canadensis*
 Green, see *Cyanocorax yncas*
 Jett, David A., see Howe, William H., Daniel
 M. Taylor, and ———
 Jett, David A., see Sykes, Paul W., Jr., Cam-
 eron B. Kepler, ———, and Michael
 E. DeCapita
 Jewelfront, Gould, see *Polyplancta aures-*
cens
 Jimenez, Jaime E., and Fabian M. Jaksic,
 Biology of the Austral Pygmy-Owl,
 377–389
 Johnsgard, Paul A., Diving birds of North
 America, reviewed, 357–360
 Johnson, Donald R., Body size of Northern
 Goshawks on coastal islands of Brit-
 ish Columbia, 637–639
 Johnson, Oscar W., see Matthiu, Peter M.,
 ———, Patricia M. Johnson, and G.
 Causey Whittow
 Johnson, Patricia M., see Matthiu, Peter M.,
 Oscar W. Johnson, ———, and G.
 Causey Whittow
 Johnson, Timothy H., Biodiversity and con-
 servation in the Caribbean: profiles of
 selected islands, reviewed, 519–521
 Junco, Dark-eyed, see *Junco hyemalis*
 Yellow-eyed, see *Junco phaeonotus*
Junco hyemalis, 610, 612, 615, 618
 phaeonotus, 654–655
 Kane, Richard, see Bosakowski, Thomas,
 ———, and Dwight G. Smith
 Kavanau, J. Lee, Lovebirds, cockatiels, bud-
 gerigars: behavior and evolution, re-
 viewed, 521–522
 Keith, Stuart, review by, 663–664
 Kepler, Cameron B., see Sykes, Paul W., Jr.,
 ———, David A. Jett, and Michael
 E. DeCapita
 Kestrel, American, see *Falco sparverius*
 Kiff, Lloyd F., Historical breeding records of
 the Common Merganser in south-
 eastern United States, 141–143
 Kilham, Lawrence, On watching birds, re-
 viewed, 151–152
 Kingbird, Eastern, see *Tyrannus tyrannus*
 Loggerhead, see *Tyrannus caudifasciatus*
 Kingfisher, Micronesian, see *Halcyon cin-*
namomina cinnamomina
 Kinglet, Ruby-crowned, see *Regulus calen-*
dula
 Kite, Black-shouldered, see *Elanus caeruleus*
 Snail, see *Rostrhamus sociabilis*
 Kittiwake, Black-legged, see *Rissa tridactyla*
 Klem, Daniel, Jr., Bird-window collisions,
 606–620
Lagopus lagopus, 126, 466
Lampornis clemenciae, 574
Lanio aurantius, 390–409
Lanius excubitor, 580, 584, 588
 ludovicianus, 458–460
Larus argentatus, 495, 580, 583
 atricilla, 115, 398
 delawarensis, 96–97, 390–409
 marinus, 494–496
 occidentalis, 497–500
 philadelphia, 390–409, 589
 Lawrence, Michael, see Brown, Roy, John
 Ferguson, ———, and David Lee
 Leak, Jennifer, and Scott K. Robinson, Notes

- on the social behavior and mating system of the Casqued Oropendola, 134-137
- Leck, Charles F., review by, 518-519
- LeCroy, Mary, review by, 148-151
- Lee, David, see Brown, Roy, John Ferguson, Michael Lawrence, and ———
- Legatus leucophaius, 135
- Leptasthenura aegithaloides, 384-385
- Leptopogon amaurocephalus, 390-409
- Lepus americana, 556
- Lewis, David B., see Briggs, Kenneth T., William Breck Tyler, ———, and David R. Carlson
- Lewis, Mark G., and Fred A. Sharpe, Birding in the San Juan Islands, reviewed, 514-515
- Libri picturati, 104
- Limosa fedoa, 390-409
haemastica, 589
- Liolaemus nitidus, 386
sp., 386
- Livezey, Bradley C., Phylogenetic relationships and incipient flightlessness of the extinct Auckland Islands Merganser, 410-435
- lizard, rough-scaled, see Liolaemus nitidus
- Loctustella sibilatrix, 634
- Longspur, Lapland, see Calcarius lapponicus
- Lophodytes cucullatus, 142, 390-409, 410-435
- Loxia curvirostra, 350
pytyopsittacus, 350
- Loxioides [bailleui], 167
- Lymnophlyps swainsonii, 390-409
- Lynch, James F., see Ornat, Arturo Lopez, ———, and Barbara MacKinnon de Montes
- Machetornis rixosus, 62-76
- MacKinnon de Montes, Barbara, see Ornat, Arturo Lopez, James F. Lynch, and ———
- Madge, Steve, and Hilary Burn, Waterfowl: an identification guide to the ducks, geese, and swans of the world, reviewed, 362-363
- Magpie, Black-billed, see Pica pica
- Maher, William J., review by, 146-147
- Maiague (Majaque), see Procellaria brasili-ana
- Mallard, see Anas platyrhynchos
- Manuwal, David A., review by, 513-514
- Margarops fuscatus, 115
- Markum, Darrell E., and Guy A. Baldassarre, Breeding biology of Muscovy Ducks using nest boxes in Mexico, 621-626
- Marmosa elegans, 385
- Marsh-Tyrant, White-headed, see Arundinicola leucocephala
- Marshall, David B., Status of the Marbled Murrelet in North America; with special emphasis on populations in California, Oregon, and Washington, reviewed, 672-673
- Marshall, Samuel D., Nest sites of the Micronesian Kingfisher on Guam, 472-477
- Marti, Carl D., Food sharing by sibling Common Barn-Owls, 132-134
- mating system
of Psarocolius oseryi, 134-137
- Matthiu, Peter M., Oscar W. Johnson, Patricia M. Johnson, and G. Causey Whittow, Basal metabolic rate of Pacific Golden-Plovers, 652-654
- McCabe, Robert A., Aldo Leopold/the professor, reviewed, 144-146
- McCleery, R. H., see Perrins, C. M., and ———
- McClelland, B. Riley, see Crenshaw, John G., and ———
- McCullough, Mark A., Molting sequence and aging of Bald Eagles, 1-10
- Meadowlark, Red-breasted, see Sturnella loyca
- Mearns, Barbara, and Richard Mearns, Biographies for birdwatchers, reviewed, 658-659
- Mearns, Richard, see Mearns, Barbara, and ———
- Melamprosops phaeosoma, 177
- Melanerpes carolinus, 615
formicivorus, 300
- Melanitta fusca, 504
spp., 410, 418
- Meleagris gallopavo, 591-598, 644-645
- Melospiza georgiana, 615
melodia, 77-83, 85

- Merganser, Auckland Island, see *Mergus australis*
 Brazilian, see *Mergus octosetaceus*
 Chinese, see *Mergus squamatus*
 Common, see *Mergus merganser*
 Hooded, see *Lophodytes cucullatus*
 Red-breasted, see *Mergus serrator*
Mergellus albellus, 410, 412
 spp., 418
Mergus australis, 410–435
 merganser, 141–143, 410–435
 octosetaceus, 410–435
 serrator, 410–435
 squamatus, 410–435
 Merlin, see *Falco columbarius*
 metabolic rate
 of *Pluvialis fulva*, 652–654
Metallura spp., 480
 tyrianthina, 477–481
Micrastur semitorquatus, 390–409
Microtus spp., 484
 migration
 of *Grus canadensis tabida* through Oke-
 fenokee Swamp, 87–93
Mimus gilvus, 62–76
 polyglottos, 97–101, 458
 thenca, 385
 Miskelly, Colin M., Flexible incubation system and prolonged incubation in New Zealand Snipe, 127–132
Mniotilta varia, 116
 Mockingbird, Chilean, see *Mimus thenca*
 Northern, see *Mimus polyglottos*
Molothrus ater, 53, 85, 353, 599–605
 bonariensis, 62–76
 molt sequence
 of *Haliaeetus leucocephalus*, 1–10
 Monroe, Burt L., Jr., Anne L. Stamm, and Rainard L. Palmer-Ball, Jr., Annotated checklist of the birds of Kentucky, reviewed, 366
 Moorhen, Common, see *Gallinula chloropus*
Morococcyx erythropygus, 643
 Morse, Douglass H., Song patterns of warblers at dawn and dusk, 26–35
 mortality
 bird-window collisions, 606–620
 mortality rate
 in *Lanius ludovicianus*, 458–460
 Morton, Eugene S., Female Hooded Warbler plumage does not become more male-like with age, 460–462
Motacilla maculosa, 634
 mouse, Darwin's leaf-eared, see *Phyllotis darwini*
 field, see *Akodon* sp.
 olivaceous field, see *Akodon olivaceus*
 Mueller, Helmut C., The evolution of reversed sexual dimorphism in owls: corrections and further analyses, 486–491
 Mueller, Helmut C., review by, 354–357
Muscicapa carolinensis, 633
Myadestes oahuensis, 177
 townsendi, 100
Mycteria americana, 437
Myiarchus crinitus, 77–83
 tyrannulus, 642
Myiopagis viridicata, 390–409
Myiozetetes cayanensis, 62–76
 similis, 62–76
 Navarro, Rene A., Claudio R. Velasques, and Roberto P. Schlatter, Diet of the Surf-bird in southern Chile, 137–141
Nemosia pileata, 62–76
 Nesbitt, Stephen A., The significance of mate loss in Florida Sandhill Cranes, 648–651
 nest
 box
 use by *Cairina moschata*, 621–626
 defense behavior
 of *Pluvialis dominica dominica*, 579–590
 material
 of *Phalacrocorax auritus*, 107–108
 parasitism
 by *Gallinula chloropus*, 508–509
 by *Phasianus colchicus*, 640–641
 by *Typanuchus phasianellus*, 126–127
 proximity
 of *Coragyps atratus* and *Cathartes aura*, 639–640
 site
 of *Halcyon cinnamomina cinnamomina*, 472–477
 usurpation by *Junco phaeonotus*, 654–655

- nesting
 above ground
 by *Meleagris gallopavo*, 644–645
 ecology
 of *Zenaidura macroura*, 467–472
 ground
 records of post breeding *Dendroica kirtlandii*, 545–588
 habitat
 of *Pluvialis dominica*, 93–96
 use by *Meleagris gallopavo*, 591–598
 materials
 of *Phalacrocorax auritus*, 107–108
 success
 of *Pluvialis dominica*, 93–96
Nettleship, David N., review by, 659–661
Nyctea spp., 635
Night-Heron, Black-crowned, see *Nycticorax nycticorax*
 Yellow-crowned, see *Nycticorax violaceus*
 Norton, Robert L., review by, 519–521
Nothoprocta perdicaria, 384–385
Nucifraga caryocatactes, 290
 columbiana, 290, 296
 Nudds, Thomas D., see Boos, John D., ———, and Kjell Sjöberg
Numenius phaeopus, 390–409, 585, 589
Nutcracker, Eurasian, see *Nucifraga columbiana*
nutcracker, see *Nucifraga caryocatactes*
Nuthatch, Eurasian or European, see *Sitta europea*
 White-breasted, see *Sitta carolinensis*
Nyctea scandiaca, 486–491
Nycticorax nycticorax, 437
 violaceus, 437
Ocreatus underwoodii, 537
Octodon degus, 384–385
 Ogden, John C., see Powell, George V. N., Robin D. Bjork, ———, Richard T. Paul, A. Harriet Powell, and William B. Robertson, Jr.
Oldsquaw, see *Clangula hyemalis*
 Olson, Storrs L., The original description and author of the genus *Dumetella* (*Mimidae*), 633–637
 Olson, Storrs L., see James, Helen F., Richard L. Zusi, and ———
Oncorhynchus nerka, 626, 628
Oporornis formosus, 390–409
opossum, *Llaca* mouse, see *Marmosa elegans*
 Orians, Gordon H., Eivind Roskaft, and Les D. Beletsky, Do Brown-headed Cowbirds lay their eggs at random in the nests of Red-winged Blackbirds, 599–605
 Oriole, Northern, see *Icterus galbula*
 Baltimore, see *Icterus galbula galbula*
 Ornat, Arturo Lopez, James F. Lynch, and Barbara MacKinnon de Montes, New and noteworthy records of birds from the eastern Yucatan Peninsula, 390–409
Oropendola, Casqued, see *Psarocolius oseryi*
 Chestnut-headed, see *Psarocolius wagleri*
 Russet-backed, see *Psarocolius angustifrons*
Oryzomys longicaudatus, 385
Otus asio, 275
 scops, 486–491
Osprey, see *Pandion haliaetus*
Ovenbird, see *Seiurus aurocapillus*
Owl, Boreal, see *Aegolius funereus*
 Burrowing, see *Speotyto cunicularia*
 Great Gray, see *Strix nebulosa*
 Great Horned, see *Bubo virginianus*
 Little, see *Athene noctua*
 Long-eared, see *Asio otis*
 Pygmy, see *Glaucidium passerinum*
 Saw-whet, see *Aegolius acadicus*
 Screech, see *Otus asio*
 Short-eared, see *Asio flammeus*
 Snowy, see *Nyctea scandiaca*
 Tawny, see *Strix aluco*
 Ural, see *Strix uralensis*
Oxyura dominica, 390–409
Oystercatcher, American Black, see *Haematopus bachmani*
Pachyrhamphus polychopterus, 62–76
Palm-Swift, Fork-tailed, see *Reinarda [Tacyornis] squamata*
 Palmer, Ralph S., Handbook of North American Birds, reviewed, 510–511
 Palmer-Ball, Brainard L., Jr., see Munroe, Burt L., Jr., Anne L. Stamm, and ———
Pandion haliaetus, 5, 124–126
 Panza, Robin K., review by, 67–671

- Parakeet, Orange-fronted, see *Aratinga canicularis*
 Peach-fronted, see *Aratinga aurea*
 White-eyed, see *Aratinga leucophthalmus*
- parasitism
 of *Empidonax traillii* by *Protocalliphora cuprina*, 127
- Parkes, Kenneth C., review by, 658–659
- Paroaria gularis*, 62–76
- Parrot, Azure-winged, see *Hapalopsittaca fuertesi*
 Red-faced, see *Hapalopsittaca pyrrhops*
 Rusty-faced, see *Hapalopsittaca amazonina*
- Parula americana*, 26–35, 77–83
Parula, Northern, see *Parula americana*
- Parus afer*, 329–330
albiventris, 330
amabilis, 330
ater, 182–197, 208, 217–235, 254–262, 263–288, 289–304, 305–343
ater aemodius, 314
ater ater, 314
ater atlas, 314
atricapillus, 182–197, 200–202, 207, 210, 254–262, 263–288, 289–304, 305–343, 344–349, 351–353
bicolor, 182–197, 200–202, 207, 255, 263–288, 289–304, 305, 311, 338, 347, 646
 [bicolor] *atricristatus*, 182–197, 311
caeruleus, 182–197, 198–216, 217–235, 236–253, 256, 257, 263–288, 289–304, 305–343, 352
carolinensis, 182–197, 255, 256, 263–288, 289–304, 321–322, 334, 338, 646
carpi, 330
cinctus, 182–197, 263–288, 289–304, 326–328, 333, 338
cristatus, 182–197, 208–214, 254–262, 263–288, 289–304, 305–343
cyanus, 312, 338, 339
davidi, 191, 318
dichrous, 182–197, 308, 337
elegans, 330, 332
fasciiventer, 330
fringillinus, 330
funereus, 330
gambeli, 182–197, 254–262, 263–288, 289–304, 323–324, 329, 338
griseiventris, 330
holsti, 332
hortensis, 634
hudsonicus, 182–197, 263–288, 289–304, 328–329, 333, 338, 349–351
inornatus, 182–197, 263–288, 289–304, 305, 310–311, 334, 338
leucomalas, 330
leuconotus, 330
lugubris, 191, 263–288, 289–304, 325, 326, 328, 338
major, 33, 182–197, 198–216, 217–235, 236–253, 254–262, 263–288, 289–304, 305–343, 344, 350, 352
major cinereus, 316
melanolophus, 314–315, 338
montanus, 182–197, 207–214, 217–235, 255, 263–288, 289–304, 322–324, 338
monticolus, 317, 338, 339
niger, 263–288, 330, 352
nuchalis, 317
palustris, 182–197, 211, 217–235, 255, 263–288, 289–304, 324–325, 338
rubidiventris, 313, 315, 338
rufescens, 182–197, 289–304, 329, 333, 338
rufiventris, 330
rufonuchalis, 313, 315, 338
sclateri, 182–197, 325–326, 328, 335, 336, 338
spilonotus, 315, 318
spp., 52
superciliosus, 191, 324
varius, 263–288, 289–304, 332
venustus, 332
wollweberi, 182–197, 263–288, 305, 308, 310, 338
xanthogenys, 315, 317, 336, 338, 339
- Passer domesticus*, 353, 609, 617
montanus, 120
- Passerculus sandwichensis*, 458
- Passerella iliaca*, 615
- Passerina cyanea*, 77–83, 116, 610
- Paul, Richard T., see Powell, George V. N., Robin D. Bjork, John C. Ogden, ———, A. Harriet Powell, and William B. Robertson, Jr.
- Pelecanus erythrorhynchos*, 390–409
olivaceus, 102, 105

- Pelican, American White, see *Pelecanus erythrorhynchos*
- Perisoreus canadensis*, 350
- Perrins, C. M., and R. H. McCleery, Laying dates and clutch size in the Great Tit, 236–253
- Petit, Lisa J., Breeding biology of Prothonotary Warblers in riverine habitat in Tennessee, 51–61
- Phacelodorus rufifrons*, 62–76
- Phaethornis longuemareus*, 390–409
ruber, 477–481
 spp., 535
- Phalacrocorax africanus*, 108–112
atriceps, 108–112
auritus, 107–108, 108–112, 115
brasilianus, 105
capensis, 108–112
carbo, 101, 102, 108–112
fuscescens, 108–112
gaimardi, 108–112
magellanicus, 105, 108–112
melanoleucos, 108–112
nigrogularis, 108–112
olivaceus, 101–106, 108–112, 115
pelagicus, 108–112
penicillatus, 108–112
sulcirostris, 108–112
varius, 108–112
- Phasianus colchicus*, 640–641
- Pheasant, Ring-necked, see *Phasianus colchicus*
- Pheucticus ludovicianus*, 610
- Phillips, Allan R., review by, 665–667
- Philodice evelynae*, 477–481
- Philodryas chamissonis*, 386
- Phoenicopterus ruber*, 398, 446
- Phrygilus alaudinus*, 385
fruticeti, 385
gayi, 385
- Phyllotis darwini*, 385
- phylogeny
 of genus *Heliodoxa*, 525–544
 of *Mergini*, 410–435
- Pica pica*, 458, 507
- Picoides lignarius*, 383, 385
pubescens, 53
- pig, feral, see *Sus scrofa*
- Pigeon, Pale-vented, see *Columba cayennensis*
- Short-billed, see *Columba nigrirostris*
- White-crowned, see *Columba leucocephala*
- Wood, see *Columba palumbus*
- Pionopsitta* spp., 373
- Pipilo erythrophthalmus*, 77–83
- Pirula* spp., 635
- Pitangus lictor*, 62–76
sulphuratus, 62–76
- Platyrinchus cancrominus*, 390–409
- Plectrophenax nivalis*, 466
- Plover, Black-bellied, see *Pluvialis squatarola*
- Kentish, see *Charadrius alexandrinus*
- Semipalmated, see *Charadrius semipalmatus*
- Snowy, see *Charadrius alexandrinus*
- Wilson's, see *Charadrius wilsonia*
- plumage
 of female *Wilsonia citrina*, 460–462
- Pluvialis apricaria*, 586, 587, 589
dominica, 93–96, 390–409, 579–590
dominica dominica, 579–590
 [dominica] *fulva*, 586, 587, 589, 652–654
squatarola, 96–97, 115, 397, 586, 587, 589, 653
- pneumatization
 in *Phalacrocoracidae*, 108–112
- Polioptila albiloris*, 642
- polyandry
 in *Parus atricapillus*, 351–353
- polygyny
 in *Dendroica petechia*, 84–86
- Polyplancta aurescens*, 525–544
- Polysticta* spp., 418
stelleri, 418
- population
 decline of *Asio otus* in New Jersey, 481–485
 of wintering *Grus canadensis tabida*, 87–93
 trends of waders in Florida Bay, 436–457
- Porter, R. F., see Hollom, P. A. D., ———, S. Christensen, and Ian Willis
- Porzana sandwichensis*, 177
- Post, W., and C. Seals, Common Moorhen parasitizes a Boat-tailed Grackle nest, 508–509
- Postupalsky, Sergej, Inbreeding in Ospreys, 124–126
- Powell, A. Harriet, see Powell, George V. N.,

- Robin D. Bjork, John C. Ogden, Richard T. Paul, ———, and William B. Robertson, Jr.
- Powell, George V. N., Robin D. Bjork, John C. Ogden, Richard T. Paul, A. Harriet Powell, and William B. Robertson, Jr., Population trends in some Florida Bay wading birds, 436–457
- Prairie-Chicken, Greater, see *Tympanuchus cupido pinnatus*
- Pratt, Thane K., see Beehler, Bruce M., ———, and Dale Zimmerman
- Procellaria brasiliensis*, 101–105
- Procyon lotor*, 54
- Progne chalybea*, 62–76
tapera, 62–76
- Protonotaria citrea*, 51–61
- Psarocolius angustifrons*, 135–136
oseryi, 134–137
wagleri, 136
- Pseudonestor xanthophrys*, 159–179
- Psittirostra psittacea*, 159–179
- Ptarmigan, Willow, see *Lagopus lagopus*
- Pteroptochos megapodius*, 384–385
- Puffbird, White-necked, see *Bucco macro-rhynchus*
- Pulich, Warren M., The birds of North Central Texas, reviewed, 517–518
- Pygmy-Owl, Austral, see *Glaucidium nanum*
 Northern, see *Glaucidium gnoma*
- Pyrocephalus rubinus*, 62–76, 390–409
- Pyrope pyrope*, 385
- Quail, California, see *Callipepla californica*
- Quail-Dove, Ruddy, see *Geotrygon montana*
- Quiscalus lugubris*, 62–76
major, 508–509
quiscula, 458
- raccoon, see *Procyon lotor*
- Rail, Clapper, see *Rallus longirostris*
 Guam, see *Rallus owstoni*
 Highland, see *Rallus longirostris tenuirostris*
 King, see *Rallus elegans*
 Mexican, see *Rallus longirostris tenuirostris*
- Rallus elegans*, 117–120
longirostris, 117–120
longirostris nayaritensis, 119
longirostris tenuirostris, 117–120
owstoni, 472
- Ramphastos *cuvieri*, 135
- Rangifer *tarandus*, 350
- rat, Bennett's chinchilla, see *Abrocoma bennetti*
 Fence degu, see *Octodon degus*
 long-tailed rice, see *Oryzomys longicaudatus*
- Raven, Common, see *Corvus corax*
 records
 for Cat Island, Bahamas, 115–117
 for eastern Yucatan Peninsula, 390–409
- Recurvirostra americana*, 390–409
- Redpoll, Common, see *Carduelis flammea*
- Redstart, American, see *Setophaga ruticilla*
- Regulus calendula*, 646
regulus, 208, 275
- Reinarda [Tachyornis] *squamata*, 525–544
- reindeer, see *Rangifer tarandus*
- Remsen, J. V., Jr., Mark Ellerman, and Jeffrey Cole, Dead-leaf-searching by the Orange-crowned Warbler in Louisiana in winter, 645–648
- reproduction
 male parental care by *Tyrannus tyrannus*, 462–467
- reproductive success
 of *Protonotaria citrea*, 51–61
- Restrepo, Daniel Uribe, see Graves, Gary R., and ———
- Richardson, David M., Close nesting of a Black Vulture and a Turkey Vulture, 639–640
- Rising, J. D., review by, 662–663
- Rissa tridactyla*, 648
- Robertson, Raleigh J., see Hayes, Patricia A., and ———
- Robertson, William B., Jr., see Powell, George V. N., Robin D. Bjork, John C. Ogden, Richard T. Paul, A. Harriett Powell, and ———
- Robin, American, see *Turdus migratorius*
- Robinson, Scott K., see Leak, Jennifer, and ———
- Roskaft, Eivind, see Orians, Gordon H., ———, and Les D. Beletsky
- Rostrhamus sociabilis*, 177, 465

- Safina, Carl, and James M. Utter, Food and winter territories of Northern Mockingbirds, 97-101
- Safina, Carl, see Wagner, Richard H., and _____
- salmon, kokanee, see *Oncorhynchus nerka*
- Saltator coerulescens*, 62-76
orenocensis, 62-76
- Sandpiper, Least, see *Calidris minutilla*
- Semipalmated, see *Calidris pusilla*
- Spotted, see *Actitis macularia*
- Stilt, see *Calidris himantopus*
- Western, see *Calidris mauri*
- Sapsucker, Yellow-bellied, see *Sphyrapicus varius*
- Sarno, Ronald J., A possible foraging relationship between Black-billed Magpies and American Kestrels, 507
- Satrapa icterophrys, 62-76
- Sazima, Ivan, Peach-fronted Parakeet feeding on winged termites, 656-657
- Scaphidura oryzivora*, 135
- Scardafella squammata*, 62-76
- Scelorchilus albicollis*, 385
- Schistes geogroyi*, 525-544
- Schlatter, Roberto P., see Navarro, Rene A., Claudio R. Velasquez, and _____
- Schmutz, Joel A., Clait E. Braun, and William F. Andelt, Nest habitat use of Rio Grande Wild Turkeys, 591-598
- Schuchmann, Karl-L., Release of gaping in hummingbirds (Trochilidae), 477-481
- Scolopax minor*, 390-409
- Scoter, White-winged, see *Melanitta fusca*
- Scott, David M., correction, 353
- Seals, C., see Post, W., and _____
- Sealy, Spencer G., Incidental "egg dumping" by the House Wren in a Yellow Warbler nest, 491-493
- Sealy, Spencer G., review by, 357-360
- Sealy, Spencer G., see Hobson, Keith A., and _____
- Seamster, Michael H., see Cobb, David T., Philip D. Doerr, and _____
- Seiurus aurocapillus*, 116, 610
noveboracensis, 116
- Selasphorus platycercus*, 559-578
rufus, 559-578
- Sephanoides galeritus*, 385
- Sermeno, Alfonso, see Thurber, Walter A., J. Francisco Serrano, _____, and Manuel Benitez
- Serpophaga hypoleuca*, 62-76
- Serrano, J. Francisco, see Thurber, Walter A., _____, Alfonso Sermeno, and Manuel Benitez
- Setophaga ruticilla*, 36, 49, 116
- Shag, Red-legged, see *Phalacrocorax gaimardi*
- Rock, see *Phalacrocorax magellanicus*
- Sharpe, Fred A., see Lewis, Mark G., and _____
- Sherry, David F., Food storing in the Paridae, 289-304
- Shoveler, Northern, see *Anas clypeata*
- Shrike, Loggerhead, see *Lanius ludovicianus*
Northern, see *Lanius excubitor*
- Shrike-Tanager, Black-throated, see *Lanio aurantius*
- Sialia sialis*, 463
spp., 52
- Sicalis columbiana*, 62-76
flaveola, 62-76
luteola, 62-76
- Siegel-Causey, Douglas, Cranial pneumatization in the Phalacrocoracidae, 108-112
- Sierra-Finch, Band-tailed, see *Phrygilus alaudinus*
Gray-headed, see *Phrygilus gayi*
Mourning, see *Phrygilus fruticeti*
- Silverin, Bengt, see Gill, Frank B., David H. Funk, and _____
- Silvia melodia*, 635
- Simpson, Scott A., see Westemeier, Ronald L., Terry L. Esker, and _____
- Sitta carolinensis*, 182-197
europea, 100, 273
- size
of *Accipiter gentilis*, 637-639
- Sjoberg, Kjell, see Boos, John D., Thomas D. Nudds, and _____
- Skeate, Stewart T., review by, 521-522
- Skua, Great, see *Catharacta skua*
- Skutch, Alexander F., A naturalist amid tropical splendor, 670-671
- Sloane, Sarah A., see Haas, Carola A., and _____

- Small, Mary F., and Malcolm L. Hunter, Jr.,
Response of passerines to abrupt forest-river and forest-powerline edges in Maine, 77–83
- Smew, see *Mergellus albellus*
- Smith, Dwight G., see Bosakowski, Thomas, Richard Kane, and ———
- Smith, Susan M., Black-capped Chickadee summer floaters, 344–349
- snake, brown tree, see *Boiga irregularis*
long-tailed, see *Philodryas chamissonis*
- Snipe, Common, see *Gallinago gallinago*
Snare's Island, see *Coenocorypha aucklandica huegeli*
- Sobkowiak, Stefan, and Rodger D. Titman,
Bald Eagles killing American Coots and stealing coot carcasses from Greater Black-backed Gulls, 494–496
- social
organization
in Paridae, 254–262
systems
in Paridae, 263–288
- Sodhi, Navjot S., Attempted polygyny by a Merlin, 506–507
- Solitaire, Townsend's, see *Myadestes townsendi*
- Somateria fischeri, 418
mollissima, 418, 504
spectabilis, 418
spp., 410, 418
- Spadebill, Stub-tailed, see *Platyrinchus can-crominus*
- Sparrow, Eurasian Tree, see *Passer montanus*
Fox, see *Passerella iliaca*
Grassland, see *Ammodramus humeralis*
Green-backed, see *Ammemmonops chlo-ronotus*
Nuttall's White-crowned, see *Zonotrichia leucophrys nuttalli*
Rufous-collared, see *Zonotrichia capensis*
Savannah, see *Passerculus sandwichensis*
Song, see *Melospiza melodia*
Swamp, see *Melospiza georgiana*
White-crowned, see *Zonotrichia leuco-phrys*
White-throated, see *Zonotrichia albicollis*
Yellow-browed, see *Ammodramus auri-frons*
- Sparrowhawk, see *Accipiter nisus*
- Speotyto cunicularia, 390–409
- Sphyrapicus spp., 645
varius, 390–409
- Spizastur melanoleucus, 135, 390–409
- Spizeastus tyrannus, 390–409
- Spoonbill, Roseate, see *Ajaia ajaia*
- Sporophila intermedia, 62–76
minuta, 62–76
- Stamm, Anne L., see Monroe, Burt L., Jr., ———, and Brainard L. Palmer-Ball, Jr.
- Starling, European, see *Sturnus vulgaris*
status
of wintering *Histrionicus histrionicus*, 112–114
- Steadman, David W., review by, 148
- Steamer-Duck, Flying, see *Tachyeres pata-chonicus*
- Stercorarius parasiticus, 580, 583, 588
- Sterna antillarum, 390–409
caspia, 390–409
dougallii, 497–500
hirundo, 497–500
maxima, 115, 399
spp., 535
- Stilt, Black-necked, see *Himantopus mexi-canus*
- Stork, Wood, see *Mycteria americana*
- Strix aluco, 307, 314, 486–491
nebulosa, 486–491
uralensis, 486–491
- Sturnella loyca, 385
militaris, 62–76
- Sturnus vulgaris, 99, 617
- Sula sula, 390–409
- Sullivan, Kimberly A., Jeffery Cole, and Eth-el M. Villalobos, Intraspecific nest usurpation by a Yellow-eyed Junco, 654–655
- Sungrebe, see *Heliornis fulica*
- Surfbird, see *Aphriza virgata*
- Surnia sp., 635
ulula, 486–491
- Sus scrofa, 473
- Swallow, Barn, see *Hirundo rustica*
Tree, see *Tachycineta bicolor*
- Swan, Mute, see *Cygnus olor*
- Swift, Chestnut-collared, see *Cypseloides ru-tilus*
European, see *Apus apus*
- Sykes, Paul W., Jr., Cameron B. Kepler, Da-

- vid A. Jett, and Michael E. DeCapita, Kirtland's Warblers on the nesting grounds during the post-breeding period, 545-558
- Synallaxis albescens*, 62-76
- Tachycineta bicolor*, 466
- Tachyeres patachonicus*, 428 spp., 429
- Tangara cayana*, 62-76
- Tapaculo, White-throated, see *Scelorchilus albicollis*
- Tapera naevia*, 390-409, 643
- taxonomy
- of *Dumetella carolinensis*, 633-637
 - of *Dysmorodrepanis munroi*, 159-179
 - of *Glaucidium nanum*, 377-389
 - of *Hapalopsittaca* sp., 369-376
 - of *Mergus australis*, 410-435
 - of *Phalacrocorax olivaceus*, 101-106
 - of *Rallus longirostris tenuirostris*, 117-120
- Taylor, Daniel M., see Howe, William H., ———, and David A. Jett
- Teal, Auckland Flightless, see *Anas aucklandica*
- Blue-winged, see *Anas discors*
- Tern, Black, see *Chlidonias niger*
- Caspian, see *Sterna caspia*
 - Common, see *Sterna hirundo*
 - Least, see *Sterna antillarum*
 - Roseate, see *Sterna dougallii*
 - Royal, see *Sterna maxima*
- territory
- of wintering *Mimus polyglottos*, 97-101
- Thalurania furcata*, 477-481
- Thamnophilus doliatus*, 62-76
- Thickbill, Pine, see *Densirostra enucleator*
- Thomomys talpoides*, 133
- Thompson, Andrew D., Jr., see Gaunt, Sandra L. L., and ———
- Thrasher, Brown, see *Toxostoma rufum*
- Pearly-eyed, see *Margarops fuscatus*
- Thraupis episcopus*, 62-76
- Thrush, Austral, see *Turdus falcklandii*
- Cat, see *Dumetella felivox*
 - Garden, see *Turdus hortensis*
 - Gray-cheeked, see *Catharus minimus*
 - Hermit, see *Catharus guttatus*
 - Swainson's, see *Catharus ustulatus*
 - Wood, see *Hylocichla mustelina*
- Thryothorus ludovicianus*, 646
- Thurber, Walter A., J. Francisco Serrano, Alfonso Sermeno, and Manuel Benitez, Status of uncommon and previously unreported birds of El Salvador, reviewed, 665-667
- Tiger-Heron, Bare-throated, see *Tigrisoma mexicanum*
- Tigrisoma mexicanum*, 390-409
- Tinamou, Chilean, see *Nothoprocta perdix*
- arisa
 - Thicket, see *Crypturellus cinnamomeus*
- Tit, African Grey, see *Parus afer*
- Azure, see *Parus cyanus*
 - Black, see *Parus niger*
 - Black-crested, see *Parus melanolophus*
 - Black-lored, see *Parus xanthogenys*
 - Blue, see *Parus caeruleus*
 - Coal, see *Parus ater*
 - Crested, see *Parus cristatus*
 - Dusky, see *Parus funereus*
 - Elegant, see *Parus elegans*
 - Garden, see *Parus hortensis*
 - Gray-crested, see *Parus dichrous*
 - Great, see *Parus major*
 - Green-backed, see *Parus monticolus*
 - Marsh, see *Parus palustris*
 - Palawan, see *Parus amabilis*
 - Pere David's, see *Parus davidi*
 - Red-throated, see *Parus fringillinus*
 - Rufous-bellied, see *Parus rubidiventris*
 - Rufous-vented, see *Parus rufonuchalis*
 - Siberian, see *Parus cinctus*
 - Sombre, see *Parus lugubris*
 - Stripe-breasted, see *Parus fasciiventer*
 - Varied, see *Parus varius*
 - White-bellied, see *Parus albiventris*
 - White-winged, see *Parus nuchalis*
 - Willow, see *Parus montanus*
 - Yellow, see *Parus holsti*
 - Yellow-bellied, see *Parus venustus*
 - Yellow-cheeked, see *Parus spilonotus*
- Titman, Rodger D., see Sobkowiak, Stefan, and ———
- Titmouse, Black-crested, see *Parus [bicolor] atricristatus*
- Bridled, see *Parus wollweberi*
 - Plain, see *Parus inornatus*
 - Tufted, see *Parus bicolor*
- Tit-Spine-Tail, Plain-mantled, see *Leptasthenura aegithaloides*
- Tit-tyrant, Tufted, see *Anairetes parulus*
- Todirostrum cinereum*, 62-76

- Tolmomyias flaviventris, 62–76
 Toucan, Cuvier's, see *Ramphastos cuvieri*
 Towhee, Rufous-sided, see *Pipilo erythrophthalmus*
 Toxostoma rufum, 458
 Treecreeper, see *Certhia familiaris*
 Tringa flavipes, 115, 398
 melanoleuca, 115
 Trochilus polytmus, 477–481
 Troglodytes aedon, 59, 62–76, 385, 465, 491–493
 Trogon, Black-headed, see *Trogon melanocephalus*
 Elegant, see *Trogon elegans*
 Trogon elegans, 642–643
 melanocephalus, 642
 Turca, Moustached, see *Pteroptochos megapodius*
 Turcotte, Yves, and Jean Bedard, Prolonged parental care and foraging of Greater Snow Goose juveniles, 500–503
 Turdus falcklandii, 384, 385
 hortensis, 634
 migratorius, 99, 458, 610, 615
 nudigenis, 62–76
 Turkey, Wild, see *Meleagris gallopavo*
 Turnstone, Black, see *Arenaria melanocephala*
 Ruddy, see *Arenaria interpres*
 Tyler, William Breck, see Briggs, Kenneth T., ———, David B. Lewis, and David R. Carlson
 Tympanuchus cupido pinnatus, 640
 phasianellus, 126–127
 Tyrannulet, Northern Beardless, see *Campotostoma imberbe*
 River, see *Serpophaga hypoleuca*
 Tyrannus caudifasciatus, 507–508
 dominicensis, 62–76
 melanocholicus, 62–76
 savana, 62–76, 390–409
 tyrannus, 458, 462–467
 Tyrant, Patagonian, see *Colorhamphus parvirostris*
 Yellow-browed, see *Satrapa icterophrys*
 Tyto alba, 115, 132–134, 484, 486–491
 Uropsila leucogastra, 642
 Urosticte benjamini, 525–544
 Utter, James M., see Safina, Carl, and ———
- Valentine, Bradley E., see Boland, Stephen P., Jeffrey A. Halstead, and ———
 Veery, see *Catharus fuscescens*
 Velasquez, Claudio R., see Navarro, Rene A., ———, and Roberto P. Schlatter
 Vermivora bachmanii, 645
 celata, 390–409, 645–648
 celata celata, 646
 celata lutescens, 646
 chrysoptera, 36–50, 390–409, 645
 peregrina, 610
 pinus, 36–50, 645
 ruficapilla, 47, 390–409, 618
 Villalobos, Ethel M., see Sullivan, Kimberly A., Jeffery Cole, and ———
 Vireo flavifrons, 115
 griseus, 618
 spp., 535
 Vireo, White-eyed, see *Vireo griseus*
 Yellow-throated, see *Vireo flavifrons*
 vocalization
 of *Amazilia luciae*, 642–643
 of *Glaucidium nanum*, 377–389
 of *Vermivora chrysoptera*, 36–50
 of warblers at dawn and dusk, 26–35
 Volatinia jacarina, 62–76
 vole, see *Microtus* spp.
 Vuilleumier, Francois, review by, 669–670
 Vulpes vulpes, 580
 Vulture, Black, see *Coragyps atratus*
 Lesser Yellow-headed, see *Cathartes burrovianus*
 Turkey, see *Cathartes aura*
 Wagner, Richard H., and Carl Safina, Relative contribution of the sexes to chick feeding in Roseate and Common terns, 497–500
 Wagtail, Pied, see *Motacilla maculosa*
 Walton, Richard K., Bird finding in New England, reviewed, 516–517
 Warbler, Bachman's, see *Vermivora bachmanii*
 Bay-breasted, see *Dendroica castanea*
 Black-and-white, see *Mniotilta varia*
 Blackburnian, see *Dendroica fusca*
 Blackpoll, see *Dendroica striata*
 Black-throated Blue, see *Dendroica caerulescens*
 Black-throated Green, see *Dendroica virens*
 Blue-winged, see *Vermivora pinus*

- Canada, see *Wilsonia canadensis*
 Cape May, see *Dendroica tigrina*
 Chestnut-sided, see *Dendroica pensylvanica*
 Golden-crowned, see *Basileuterus culicivorus*
 Golden-winged, see *Vermivora chrysoptera*
 Grace's, see *Dendroica graciae*
 Hooded, see *Wilsonia citrina*
 Kentucky, see *Oporornis formosus*
 Kirtland's, see *Dendroica kirtlandii*
 Magnolia, see *Dendroica magnolia*
 Nashville, see *Vermivora ruficapilla*
 Orange-crowned, see *Vermivora celata*
 Prairie, see *Dendroica discolor*
 Prothonotary, see *Protonotaria citrea*
 Swainson's, see *Lymnophlyps swainsonii*
 Tennessee, see *Vermivora peregrina*
 Wilson's, see *Wilsonia pusilla*
 Worm-eating, see *Helmitheros vermivorus*
 Yellow, see *Dendroica petechia*
 Yellow-rumped, see *Dendroica coronata*
 Warnock, Nils, Piracy by Ring-billed Gulls on Dunlin, 96-97
 Waterman, Jane, Andre Desrochers, and Susan Hannon, A case of polyandry in the Black-capped Chickadee, 351-353
 Waterthrush, Northern, see *Seiurus noveboracensis*
 Water-Tyrant, Pied, see *Fluvicola pica*
 Waxwing, Cedar, see *Bombycilla cedrorum*
 Webb, Sophie, see Howell, Steve N. G., and _____
 weight
 seasonal and diurnal changes for *Parus* sp., 217-235
 Weller, Milton W., review by, 362-363
 Westemeier, Ronald L., Terry Esker, and Scott A. Simpson, An unsuccessful clutch of Northern Bobwhites with hatched pheasant eggs, 640-642
 Wheeler, Brian K., see Clark, William S., and _____
 Wheye, Darryl, see Ehrlich, Paul R., David S. Dobkin, and _____
 Whimbrel, see *Numenius phaeopus*
 Whistling-Duck, Black-bellied, see *Dendrocygna autumnalis*
 Fulvous, see *Dendrocygna bicolor*
 White, Clayton M., review by, 512-513
 White-tip, see *Urosticte benjamini*
 Whittow, G. Causey, see Matthiu, Peter M., Oscar W. Johnson, Patricia M. Johnson, and _____
 Willet, see *Catoptrophorus semiplamatus*
 Garden, see *Silvia melodia*
 Williams, Sartor O., III, Notes on the rail *Rallus longirostris tenuirostris* in the highlands of central Mexico, 117-120
 Willis, Ian, see Hollom, P. A. D., R. F. Porter, S. Christensen, and _____
Wilsonia canadensis, 77-83
 citrina, 460-462
 pusilla, 390-409
 Woodcock, American, see *Scolopax minor*
 Woodcreeper, Barred, see *Dendrocolaptes certhia*
 Woodpecker, Acorn, see *Melanerpes formicivorus*
 Downy, see *Picoides pubescens*
 Red-bellied, see *Melanerpes carolinus*
 Striped, see *Picoides lignarius*
 Wood-Pewee, Eastern, see *Cotopus virens*
 Wren, Carolina, see *Thryothorus ludovicianus*
 House, see *Troglodytes aedon*
 White-bellied, see *Uropsila leucogastra*
Xenopsaris albinucha, 62-76
Xenopsaris, White-naped, see *Xenopsaris albinucha*
 Yellowlegs, Greater, see *Tringa melanoleuca*
 Lesser, see *Tringa flavipes*
 Yellowthroat, Common, see *Geothlypis trichas*
Zenaida auriculata, 384, 385
 macroura, 11-25, 390-409, 467-472
 Zimmerman, Dale A., see Beehler, Bruce M., Thane K. Pratt, and _____
 Zimmerman, John L., A guide to bird finding in Kansas and western Missouri, reviewed, 662-663
 Zimmerman, John L., review by, 668-669
 Zink, Robert M., see Gerwin, John A., and _____
Zonotrichia albicollis, 610, 615, 618
 capensis, 346, 385
 leucophrys, 618
 leucophrys nuttalli, 120-124
 Zusi, Richard L., see James, Helen F., _____, and Storrs L. Olson

This issue of *The Wilson Bulletin* was published on 19 December 1989.