

INDEX TO VOLUME 97

Compiled by Jean Ferner

This index is primarily one to new information. Previously published information referred to in this volume has not been indexed unless extensive comparisons or reinterpretations are involved. For some species, especially ones not in the A.O.U. Check-list, scientific names only have been entered, and in some instances entries under scientific names are more extensive than those under vernacular names. New generic, specific, and subspecific names are printed in **boldface** type.

- Accipiter collaris*, 168
A. cooperii, 342
A. striatus, 798
Agelaius phoeniceus, 262, 309, 311, 559–565, 819–821
Aglaeactis castelnaudii, 168–169
Ainley, David G., Geographic variation in Leach's Storm-Petrel, 837–853
Aix sponsa, 480–489
Ajaia ajaja, 591–599
Alaska, 268–280, 509–520, 701, 837–852
Alberta, 396–399, 701
Albinism in *Atlapetes leucopterus dresseri*, 886–887; *Dendroica coronata*, 881–883
Alexander, William C., Aggressive displays in non-breeding Canvasbacks, 198–201
Ali, Salim, and S. Dillon Ripley, Handbook of the birds of India and Pakistan, together with those of Bangladesh, Nepal, Bhutan, and Sri Lanka (rev.), 920
Altruism (see Communal breeding)
Amadina fasciata, 222
Amadon, D., reviews by 428–429, 921
American Ornithologists' Union, Awards, 211; Proceedings of the Ninety-seventh Stated Meeting, 1AA–20AA
Ammodramus aurifrons, 369
A. humeralis, 369
A. savannarum, 893
Anairetes alpinus, 172
Anas acuta, 902
A. clypeata, 902
A. luzonica, 902
A. penelope, 902
A. platyrhynchos, 875–878
A. querquedula, 902
A. strepera, 902
Anatomy and morphology of *Accipiter collaris*, 168; *Agelaius phoeniceus*, 309, 311; *Anairetes alpinus*, 172; *Anas platyrhynchos*, 876; *Aphelecoma coeruleascens*, 327; *A. ultramarina*, 327; *Archaeopteryx*, 86–92; *Ardea*, 743, 747; *Asio flammeus*, 764; *Asthenes ottonis*, 171; *A. urubambensis*, 171; *A. virgata*, 171; *Athene cunicularia*, 764; *A. noctua*, 764; *Atlapetes albiceps*, 886; *A. leucopterus dresseri*, 885–887; ***A. L. paynteri***, 883–886; *Baptornis*, 88; *Blythipicus rubiginosus*, 521–529; *Bubo bubo*, 764; *B. virginianus*, 764; *Buteo albi-caudatus*, 367; *B. jamaicensis*, 783; *Calamospiza melanocorys*, 327; *Calidris minuta*, 627–628; *C. ruficollis*, 628; *Campephilus principalis*, 521–529; *Campethera abingoni*, 521–529; *C. bennettii*, 521–529; *Cardinalis sinuatus*, 327; *Caryothraustes humeralis*, 174; *Catharus ustulatus*, 327; *Chamaea fasciata*, 327; *Chrysocolaptes lucidus*, 521–529; *Chrysoptilus melanochloros*, 521–529; *C. punctigula*, 521–529; *Colaptes auratus*, 521–529; *C. campestris*, 521–529; *C. pitius*, 521–529; *Conirostrum ferrugineiventris*, 173; *Contopus sordidulus*, 327; *Coturnicops* (= *Micropygia*) *schomburgkii*, 367–368; *Cranioleuca albicapilla*, 170; *C. marcapatae*, 170; *Creurgops dentata*, 174; *Cygnus bewickii*, 698–699; *C. columbianus*, 698–699; *Dacelo*, 743; *Dendroica coronata*, 881–883; *Dendropicos fuscescens*, 521–529; *Dinopium javanense*, 521–529; *Dromaius novaehollandiae*, 744, 747; *Dryocopus javensis*, 521–529; *D. lineatus*, 521–529; *D. pileatus*, 521–529; *Dubusia* (= *Delothraupis*) *castaneiventris*, 174; *Empidonax traillii*, 327; *Enaliornis*, 88; epidermal structures, 742–751; *Falco sparverius*, 629–630; *Gallus gallus*, 743, 745, 747; *Glaucidium brasilianum*, 764; *Grallaria erythroleuca*, 171; *Hemicircus concretus*, 521–529; *Hemispingus xanthophthalmus*, 174; *Hesperornis*, 88–91; *Himantopus mexicanus*, 634; *Hirundo rustica*, 150–151; hybrids of *Hirundo rustica* × *Petrochelidon* spp., 150–151; hybrids of *Vidua purpurascens* × *V. paradisaea*, 120–121; *Ichthyornis*, 89–92; *Jynx ruficollis*, 521–529; *J. torquilla*, 521–529; *Larus novaehollandiae*, 744, 747; *L. occidentalis*, 473–474; *Laterallus xenopterus*, 901–902; *Leptasthenura aegithaloides*, 327; *L. xenothorax*, 169; *Meiglyptes tristis*, 521–529; *M. tukki*, 521–529; *Melanerpes aurifrons*, 521–529; *M. carolinus*, 521–529; *M. erythrocephalus*, 521–529; *M. formicivorus*, 521–529; *M. lewis*, 521–529; *M. rubricapillus*, 521–529; *M. striatus*, 521–529; *M. uropygialis*, 521–529; *Meleagris gallopavo*, 743, 744, 747; *Micropternus brachyurus*, 521–529; *Mi-*

- crochopias quixensis*, 388; *Molothrus ater*, 309–315; *Mulleripicus pulverulentus*, 521–529; *Myiarchus tuberculifer*, 327; *Myrmotherula fulviventris*, 388; *Nesocittes micromegas*, 521–529; *Notiochelidon flavipes*, 173; *Oceanodroma furcata*, 269–270, 274; *O. leucorhoa*, 837–852; *Oreomanes fraseri*, 173; *Otus scops*, 764; *Pardirallus maculatus*, 407; *Passerculus sandwichensis*, 721–733; *Passerella iliaca*, 327; *Petrochelidon fulva*, 150–151; *P. pyrhoneota*, 150–151; *Phainopepla nitens*, 327; *Philohela minor*, 879–880; *Phloeocastes melanoleucos*, 521–529; *Picoides arcticus*, 521–529; *P. arizonae*, 521–529; *P. borealis*, 521–529; *P. canicapillus*, 521–529; *P. leucotos*, 521–529; *P. lignarius*, 521–529; *P. macei*, 521–529; *P. major*, 521–529; *P. nuttallii*, 521–529; *P. pubescens*, 521–529; *P. scalaris*, 521–529; *P. syriacus*, 521–529; *P. tridactylus*, 521–529; *P. villosus*, 521–529; *Piculus chrysochloros*, 521–529; *P. rivolii*, 521–529; *Picumnus cirrhatous*, 521–529; *Picus canus*, 521–529; *P. chlorolophus*, 521–529; *P. flavinucha*, 521–529; *P. mentalis*, 521–529; *P. viridis*, 521–529; *P. vittatus*, 521–529; *Polioptila melanura*, 327; *Porzana albicollis*, 367; *Progne subis*, 327; *Psaltriparus minimus*, 327; *Pteropochos megapodius*, 327; *Sasia abnormis*, 521–529; *Schizoeaca helleri*, 170–171; *Sitta carolinensis*, 327; *S. pygmaea*, 327; *Sphyrapicus thyroideus*, 521–529; *S. varius*, 521–526; *Stercorarius parasiticus*, 832–835; *Sterna hirundo*, 743, 744, 747; *Strix aluco*, 764; *Sturnella neglecta*, 327; *Tachycineta leucopyga*, 327; *T. thalassina*, 327; *Tadorna*, 747; *Thripis namaquus*, 521–529; *Toxostoma lecontei*, 327; *T. redivivum*, 327; *Trichopicus cactorum*, 521–529; *Troglodytes aedon*, 327; *Tyto alba*, 764–765; *Uromyias agraphia*, 172–173; *Veniliornis passerinus*, 521–529; *Vereauxia africana*, 523; *Vidua chalybeata*, 121; *V. obtusa*, 121; *V. paradisaea*, 121; *V. purpurascens*, 121; *Xenerpestes minlosi*, 204; *X. singularis*, 203–204; *Xenodacnis parina*, 174; *Zonotrichia albicollis*, 245–251; *Z. leucophrys*, 808
- Andigena hypoglaucia*, 169
- Ankney, C. Davison, and D. M. Scott, Changes in nutrient reserves and diet of breeding Brown-headed Cowbirds, 684–696; see Scott, D. M., and ———
- Antarctica, 669–675, 825–830
- Antbird, Spotted, 387; White-plumed, 407–408
- Anthracothorax dominicus*, 626
- Antpitta, Red-and-white, 171–172
- Antshrike, 387, 389–394
- Antvireo, Spot-crowned, 387–390
- Antwren, Checker-throated, 385–395; Dot-winged, 385–395; White-flanked, 385–395
- Apapane, 28–36
- Aphelocoma coerulescens*, 202, 327, 343, 345–347
- A. ultramarina*, 327
- Aplonis cantoroides*, 659, 662
- A. metallica*, 659
- Aquadro, Charles F., see Avise, John C., et al.
- Ara nobilis*, 368
- Aratinga aurea*, 368
- Archaeopteryx*, 86–92
- Archilochus alexandri*, 790–793
- A. colubris*, 790–793
- Ardea*, 743, 747
- A. goliath*, 433–446
- A. herodias*, 591–599, 900
- Argentina, 191–193, 400–403
- Arizona, 325, 361–362
- Arkansas, 782–787
- Armstrong, Edward Allworthy, Obituary of, 922–923
- Asio flammeus*, 764
- Asthenes ottonis*, 171
- A. urubambensis*, 171
- A. virgata*, 171
- Athene cucularia*, 616–618, 764
- A. noctua*, 764
- Atkinson, Carter T., and C. John Ralph, Acquisition of plumage polymorphism in White-throated Sparrows, 245–252
- Atlantic coast, 591–599
- Atlapetes albiceps*, 886
- A. leucopterus dresseri*, 883–887
- A. l. leucopterus*, 884
- A. l. paynteri**, 883–887
- Avery, Michael L., Diet and breeding seasonality among a population of Sharp-tailed Munias, *Lonchura striata*, in Malaysia, 160–166
- Avise, John C., John C. Patton, and Charles F. Aquadro, Evolutionary genetics of birds. I. Relationships among North American thrushes and allies, 135–147
- Aythya ferina*, 902
- A. fuligula*, 902
- A. valisineria*, 198–201
- Baber, Daniel W., and John G. Morris, Florida Scrub Jays foraging from feral hogs, 202
- Balgh, David F., George S. Innis, and Martha Hatch Balgh, Kin selection in Rio Grand Turkeys: a critical assessment, 853–860
- Balgh, Martha Hatch, see Balgh, David F., et al.
- Bammann, Albert R., see Koplin, James R., et al.
- Banks, Richard C. (Ed.), Museum studies and wildlife management. Selected papers (rev.), 431–432; Commentary: On getting involved, 637–638
- Baptista, Luis F., review by, 640–641; see Parsons, John, and ———
- Baptornis*, 88
- Barrowclough, George F., Genetic and phenotypic

- differentiation in a wood warbler (genus *Dendroica*) hybrid zone, 655–668; and Fred C. Sibley, Feather pigmentation and abrasion: test of a hypothesis, 881–883
- Baumel, J. J., A. S. King, A. M. Lucas, Y. E. Breazile, and H. E. Evans (Eds.), *Nomina anatomica avium* (rev.), 912–914
- Bayer, Range D., Social differences in defecation behavior of Great Blue Herons (*Ardea herodias*), 900–901
- Beaver, D. L., review by, 903–906
- Behavior, activity patterns, 28–36, 194–196, 269, 439, 443, 445, 513–516, 538–541, 799, 872–875; age-related, 194–196, 378–379, 633–636, 807–813; agonistic, 121–122, 127–128, 198–201, 205, 216–219, 312–318, 375–378, 389, 404–406, 444, 635, 672–674, 733–740, 807–813, 870, 872–875; altruistic (see Communal breeding); antipredator, 36, 222, 224, 620–621, 830, 872–875; breeding, 119, 122, 216–217, 220–225, 253, 259–260, 264–266, 269, 272–274, 371–383, 404–406, 473–478, 510–511, 562, 620–622, 631–633, 671, 673–675, 733–740, 754–758, 825–830, 854–857, 868–869, 875–878, 898–899; copulatory, 127, 220, 378, 854–857, 868–869, 875–878; courtship, 122–123, 128, 220, 372–378, 868–869; defecation, 900; dominance, 198–201, 218–220, 251, 312–318, 807–813, 854–857; effect of environment on, 35–36; feeding, 33–35, 94–97, 198–201, 202, 219–222, 253, 259–260, 264–266, 381, 385–395, 399–400, 436–446, 510–511, 513–515, 562, 576–580, 621, 633–636, 671–673, 790–793, 869–875, 887–889, 900; feeding aggregations, 219–220, 385–395, 869–872; flight, 28–36; foraging (see Behavior, feeding); forced copulation, 378, 875–878; hierarchical, 854–857; homosexual, 220, 473–478; incubation, 216, 221, 272, 375, 379–380, 510–511, 540–541, 754–758, 827–829, 898–899; individual distance, 635–636, 858–859; interspecific, 94–97, 119, 127–128, 222, 385–395, 443–444, 671–675, 887–889; learning, 103–132, 382, 636, 790–793, 812; maintenance, 376; mate replacement, 511, 619–622; nest helpers (see Communal breeding); nesting, 217, 220, 374–375, 378–380, 631–633, 825–830; ontogeny of, 194–196; pair, 220, 374–383, 510–511, 825–830; parental care, 217, 221, 272–274, 381, 510–511, 620–622, 830; roosting 28–36, 194–196, 217, 389; social, 121–122, 213–225, 807–813, 869–872; status-signaling, 807–813; territorial, 127–128, 198–201, 205, 217, 376–377, 385–395, 510–520, 541, 620–622, 671–675, 733–740, 870–871, 900; thermoregulatory, 35–36; vocal, 119, 121, 123, 217, 219–220, 222, 372–276, 380, 401, 404–406, 673–674, 786, 825–830, 869–870
- Behavior of *Agelaius phoeniceus*, 562; *Anas platyrhynchos*, 875–878; *Aphelocoma coerulescens*, 202; *Archilochus alexandri*, 790–793; *A. colubris*, 790–793; *Ardea goliath*, 436–446; *A. herodias*, 900; *Aythya valisineria*, 198–201; *Botarus lentiginosus*, 868–869; *B. stellaris*, 869; *Calcarius lapponicus*, 510–515; *Catharacta lombergi*, 671–675; *Dendragapus obscurus*, 404–406; *Empidonax traillii*, 538–541; *Eudypetes chrysocome*, 754–758; *E. chrysolophus*, 754–758; *E. crestatus*, 754–758; *Florida caerulea*, 371–383; *Geospiza fuliginosa*, 887–889; *Haematopus palliatus*, 205; *Haliaeetus vocifer*, 443–444; *Harpagus bidentatus*, 94–97; *Himantopus mexicanus*, 633–636; *Himatione sanguinea*, 28–36; hybrids of *Vidua purpurascens* × *V. paradisaea*, 118–132; *Junco phaeonotus*, 872–875; *Larus argentatus*, 733–740; *L. occidentalis*, 898–899; *Meleagris gallopavo*, 854–859; *Mimus polyglottos*, 869–872; *Nesomimus parvulus*, 887–889; *Oceanodroma furcata*, 269, 272–274; *Philetarius socius*, 224–225; *Plocepasser mahali*, 223–224; *Pseudonigrita arnaudi*, 213–225; *Psilorhinus morio*, 631–632; *Pygoscelis adeliae*, 825–830; *P. antarctica*, 825–830; *P. papua*, 825–830; *Pytilia melba*, 124–126; *Sterna hirundo*, 899; *Turdus migratorius*, 194–196, 576–580; *Vestiaria coccinea*, 28–36; *Vidua chalybeata*, 127, 131; *V. paradisaea*, 118–132; *V. purpurascens*, 122–123, 127; *Xanthocephalus xanthocephalus*, 620–622; *Zonotrichia leucophrys*, 807–813
- Bentbill, Southern, 387
- Bichiceanu, Mircea, Pelicani, pelicani (rev.), 432
- Bingman, Verner P., Inland morning flight behavior of nocturnal passerine migrants in eastern New York, 465–472
- Bittern, American, 868–869; European, 869
- Blackbird, Brewer's, 262–263; Chopti, 369; Red-winged, 262, 309, 311, 559–565, 819–821; Yellow-headed, 619–622
- Bluebird, Eastern, 135–146, 351–365; Mountain, 262; Western, 342
- Blythipicus rubiginosus*, 526
- Boag, Peter T., see Grant, Peter R., and ———
- Boardman, Thomas J., see Sotherland, Paul R., et al.
- Bock, Walter J., editor of Reviews, 208–210, 426–432, 640–653, 903–922; reviews by, 650–653, 917–922
- Boersma, P. Dee, Nathaniel T. Wheelwright, Mary K. Nerini, and Eugenia Stevens Wheelwright, The breeding biology of the Fork-tailed Storm-Petrel (*Oceanodroma furcata*), 268–282
- Botarus lentiginosus*, 868–869
- B. stellaris*, 869
- Braun, C. E., see Höhn, E. O., and ———

Brazil, 901-902

Breeding of (see also Behavior, breeding; Breeding season; Breeding success; Clutch size; Eggs, descriptions and measurements; Incubation and incubation period; Nest and nest site) *Agelaius phoeniceus*, 262, 559-565; *Aix sponsa*, 480-489; *Ajaia ajaja*, 591-599; *Anas platyrhynchos*, 875-878; *Ardea herodias*, 591-599; *Bubulcus ibis*, 591-599; *Buteo galapagoensis*, 581-589; *Butorides striatus*, 591-599; *Calcarius lapponicus*, 509-520; *Camarhynchus pallidus*, 239; *Camerodius albus*, 591-599; *Catharacta lonnbergi*, 669-675; *Catherpes mexicanus*, 262; *Certhia familiaris*, 262; *Cinclus mexicanus*, 262; *Contopus sordidulus*, 262-263; *Cyanocitta stelleri*, 262; *Cygnus olor*, 449-461; *Dendragapus obscurus*, 404-406; *Dendroica nigrescens*, 262; *D. petechia*, 262, 266; *Dichromanassa rufescens*, 591-599; *Egretta thula*, 591-599; *Empidonax difficilis*, 262; *E. spp.*, 262; *E. traillii*, 533-545; *Eudocimus albus*, 591-599; *Eudyptes chrysocome*, 754-758; *E. chrysolophus*, 754-758; *E. crestatus*, 754-758; *Euphagus cyanocephalus*, 262-263; *Florida caerulea*, 371-383, 591-599; *Geospiza conirostris*, 239; *G. fortis*, 239; *G. fuliginosa*, 239; *G. scandens*, 239; *Hesperiphona vespertina*, 262; *Hirundo rustica*, 151-153, 156-157; *Hydranassa tricolor*, 399-400, 591-599; *Icterus galbula*, 262; *Junco hyemalis*, 262; *Larus argentatus*, 733-740; *L. occidentalis*, 473-478, 898-899; *Lonchura striata*, 160-166; *Meleagris gallopavo*, 854-859; *Melospiza lincolni*, 262; *M. melodia*, 262; *Molothrus ater*, 259-266, 677-682, 684-695; *Nycteria americana*, 591-599; *Nuttallornis borealis*, 262; *Nyctanassa violacea*, 591-599; *Nycticorax nycticorax*, 591-599; *Oceanodroma furcata*, 268-280; *O. leucorhoa*, 838-839; *Oporornis tolmiei*, 262; *Parus gambeli*, 262; *P. rufescens*, 262; *Passer domesticus*, 396-399; *Passerculus sandwichensis*, 721-731; *Passerella iliaca*, 262; *Pelecanus occidentalis*, 491-505; *Penelope albipennis*, 889-891; *Petrochelidon fulva*, 151-153, 156-157; *P. pyrrhonota*, 151-153, 156-157; *Pheucticus melanocephalus*, 262-263; *Philetarius socius*, 223-225; *Philohela minor*, 879-880; *Pipilo chlorurus*, 262; *Piranga ludoviciana*, 262; *Platypiza crassirostris*, 239; *Plegadis falcinellus*, 591-599; *Plocepasser mahali*, 223-225; *Pseudonigrita arnaudi*, 214-217, 220-225; *Psilorhinus morio*, 631-633; *Pygoscelis adeliae*, 825-830; *P. antarctica*, 825-830; *P. papua*, 825-830; *Sialia currucoides*, 262; *Spheniscus magellanicus*, 191-193; *Spizella passerina*, 262; *Sterna hirundo*, 899; *Troglodytes aedon*, 262; *Turdus migra-*

torius, 262; *Vermivora ruficapilla*, 262; *Vireo gilvus*, 259, 262, 266; *V. solitarius*, 262, 266; *Wilsonia pusilla*, 259; *Xanthocephalus xanthocephalus*, 619-622; *Zonotrichia capensis*, 400-403

Breeding season of *Agelaius phoeniceus*, 560; *Botaurus lentiginosus*, 869; *Calcarius lapponicus*, 509-510; *Camarhynchus pallidus*, 239; *Catharacta lonnbergi*, 671; *C. maccormicki*, 671; *Cygnus olor*, 451; *Geospiza conirostris*, 239; *G. fortis*, 239; *G. fuliginosa*, 239; *G. scandens*, 239; *Lonchura striata*, 160-166; *Molothrus ater*, 262-263, 679; *Oceanodroma furcata*, 271-272; *O. leucorhoa*, 838-839; *Passerculus sandwichensis*, 721; *Pelecanus occidentalis*, 491-505; *Philohela minor*, 879-880; *Platypiza crassirostris*, 239; *Pseudonigrita arnaudi*, 214-215; *Pygoscelis adeliae*, 671; *Zonotrichia capensis*, 401-403

Breeding success, brood reduction, 754-758; effects of age on, 727-731; effects of interference on, 192-193, 264-265, 272-273

Breeding success of *Agelaius phoeniceus*, 262, 560-561, 563-565; *Buteo galapagoensis*, 584-585; *Catharacta lonnbergi*, 673-675; *C. maccormicki*, 673; *Catherpes mexicanus*, 262; *Certhia familiaris*, 262; *Cinclus mexicanus*, 262; *Contopus sordidulus*, 262-263; *Cyanocitta stelleri*, 262; *Cygnus olor*, 451-455, 457, 459; *Dendroica nigrescens*, 262; *D. petechia*, 262, 266; *Empidonax difficilis*, 262; *E. spp.*, 262; *Eudyptes chrysocome*, 754-758; *E. chrysolophus*, 754-758; *E. crestatus*, 754-758; *Euphagus cyanocephalus*, 262-263; *Hesperiphona vespertina*, 262; *Hirundo rustica*, 152-153; *Icterus galbula*, 262; *Junco hyemalis*, 262; *Melospiza lincolni*, 262; *M. melodia*, 262; *Molothrus ater*, 681-682; *Nuttallornis borealis*, 262; *Oceanodroma furcata*, 271-273; *Oporornis tolmiei*, 262; *Parus gambeli*, 262; *P. rufescens*, 262; *Passer domesticus*, 396-399; *Passerculus sandwichensis*, 730-731; *Passerella iliaca*, 262; *Petrochelidon fulva*, 152-153; *P. pyrrhonota*, 152-153; *Pheucticus melanocephalus*, 262-263; *Pipilo chlorurus*, 262; *Piranga ludoviciana*, 262; *Pseudonigrita arnaudi*, 216; *Psilorhinus morio*, 632; *Sialia currucoides*, 262; *Spheniscus magellanicus*, 191-193; *Spizella passerina*, 262; *Troglodytes aedon*, 262; *Turdus migratorius*, 262; *Vermivora ruficapilla*, 262; *Vireo gilvus*, 259, 262, 266; *V. solitarius*, 262, 266; *Wilsonia pusilla*, 259; *Xanthocephalus xanthocephalus*, 619-622; *Zonotrichia capensis*, 403

Brigham, F. Montgomery, Songs of the seasons (rev.), 919

- Brilliant, Fawn-breasted, 168
 British Columbia, 404–406, 655–666, 837–852
 Brodhead, Michael J., A soldier scientist in the American southwest: being a narrative of the travels of Elliott Coues, Assistant Surgeon, USA, with his observations upon natural history (rev.), 917
 Brush, Alan H., Patterns in the amino acid compositions of avian epidermal proteins, 742–753
Bubo bubo, 764
B. virginianus, 764, 895–896
Bubulcus ibis, 591–599
 Burger, Joanna, Age differences in foraging Black-necked Stilts in Texas, 633–636; Territory size differences in relation to reproductive stage and type of intruder in Herring Gulls (*Larus argentatus*), 733–741
 Burghardt, Gordon M., and Marc Bekoff (Eds.), The development of behavior: comparative and evolutionary aspects, 910–912
 Burns, Jeffrey T., Kimberly M. Cheng, and Frank McKinney, Forced copulation in captive Mallards I. Fertilization of eggs, 875–879
 Burt, Edward H., Jr., review by, 910–912
 Bush-Tyrant, Rufous-bellied, 172; Smoky, 172
 Bushtit, Common, 342, 351–365
Buteo albicaudatus, 367
B. galapagoensis, 581–589
B. jamaicensis, 342, 782–787, 798
B. leucorrhous, 168
B. platypterus, 631
B. polyosoma, 367, 897–898
Buteogallus anthracinus, 631
 Butler, Ronald G., see Trivelpiece, Wayne, et al.
Butorides striatus, 591–599
 Buzzard, Red-backed, 897–898

Calamospiza melanocorys, 327
Calcarius lapponicus, 509–520
Calidris alpina, 21–26
C. minuta, 627–628
C. pusilla, 627
C. ruficollis, 628
 California, 253–266, 325, 333–334, 339–349, 361–362, 473–478, 701, 795–804, 807–813, 837–852, 861–866, 898
 Calls (see Vocalizations)
Calypte anna, 342
C. costae, 800
Camarhynchus pallidus, 239
 Campbell, R. Wayne, Harry R. Carter, Christopher D. Shepard, and Charles J. Guiguet, A bibliography of British Columbia ornithology, vol. 1 (rev.), 210
Campephilus melanoleucos, 387
C. principalis, 527
Campethera abingoni, 526
C. bennettii, 526

 Canastero, Junin, 171; Line-fronted, 171; Rusty-fronted, 171
 Canvasback, 198–201
 Caraco, Thomas, Steven Martindale, and H. Ronald Pulliam, Avian time budgets and distance to cover, 872–875
Cardinalis sinuatus, 327
 Caribbean, 499–500
 Carpenter, F. Lynn, see MacMillen, Richard E., and ———
Carpodacus purpureus, 342
Caryothraustes humeralis, 174
 Casiornis, Rufous, 172
Casiornis rufa, 172
Casmerodius albus, 591–599
 Catbird, Gray, 135–146, 819–820
Catharacta lonnbergi, 669–675
C. maccormicki, 670–675, 830
C. skua, 756
Cathartes aura, 342
Cathartes fuscencens, 135–146, 547–557, 893
C. guttatus, 135–146, 893
C. minimus, 135–146, 548, 893
C. ustulatus, 135–146, 327, 547–557, 893
Catherpes mexicanus, 262
Cepphus columba, 21–26
Certhia familiaris, 262
 Chaffinch, 50–61
Chamaea fasciata, 327, 342, 345–347
 Chancellor, John, Audubon (rev.), 652
 Cheng, Kimberly M., see Burns, Jeffrey T., et al.
 Chesapeake Bay, 449–462
 Chickadee, Chestnut-backed, 262; Mountain, 262
 Chile, 186–189, 196–197, 325, 333–334, 616–618, 629–630, 760–766, 895–898
Chionis alba, 670, 672
C. minor, 756
Chlorostilbon maugaeus, 626
 Christian, Keith, Cleaning/feeding symbiosis between birds and reptiles of the Galápagos Islands: new observations of inter-island variability, 887–889
Chrysocolaptes lucidus, 526
Chrysophilus melanochloros, 526
C. puntigula, 526
Cinclus mexicanus, 262
Cistothorus palustris, 893
C. platensis, 893
 Clark, E. Scott, Louisiana Herons gleaning dragonflies, 399–400
 Cleptoparasitism (see Kleptoparasitism)
 Clutch size of *Agelaius phoeniceus*, 559–565; *Aix sponsa*, 482; *Buteo galapagoensis*, 583; *Cygnus olor*, 451–455, 459; *Eudyples chrysocome*, 754–758; *E. chrysolophus*, 754–758; *E. crestatus*, 754–758; *Hirundo rustica*, 152–153; *Larus occidentalis*, 475, 898–899; *Molothrus ater*, 688, 695; *Oceanodroma furcata*, 268,

- 270; passerine birds, 38–47; *Petrochelidon fulva*, 152–153; *P. pyrrhonota*, 152–153; *Philetarius socius*, 223; *Pithys albifrons*, 408; *Plocepasser mahali*, 223; *Pseudonigrita arnaudi*, 223; *Spheniscus magellanicus*, 191–192; *Sterna hirundo*, 899; *Zonotrichia capensis*, 403
- Coccyzus minor*, 625–626
- Cody, Martin, Commentary: "When I grow up . . .," 414–415
- Colaptes auratus*, 342, 521–522, 524–526, 529
- C. campestris*, 526
- C. pitius*, 523, 526
- Colibri coruscans*, 169
- Collias, Elsie C., see Collias, Nicholas E., and
- Collias, Nicholas E., and Elsie C. Collias, Behavior of the Grey-capped Social Weaver (*Pseudonigrita arnaudi*) in Kenya, 213–226
- Collopy, Michael W., see Koplin, James R., et al.
- Colorado, 177–184, 325, 601–607
- Columba fasciata*, 342, 347
- C. livia*, 800
- Commentaries, American and European Tern Calls, see Massey, Barbara W.; Mathematics in ecology and ornithology, see Levin, Simon A.; Old specimens and new directions: the museum tradition in contemporary ornithology, see Ricklefs, Robert E.; On digesting a theory, see Pulliam, H. Ronald; On getting involved, see Banks, Richard C.; On the philosophical basis of ornithology, see Fretwell, Stephen D.; Ornithological theory: whence and whither?, see King, James R.; Ornithologists as unconscious theorists, see Krebs, John R.; Response, see Moseley, Lynn J.; Theory and observation in modern ornithology: a forum, 409–425; Welcome mathematicians, see Emlen, John T.; "When I grow up . . .," see Cody, Martin
- Communal breeding of *Meleagris gallopavo*, 854–859; *Philetarius socius*, 223–225; *Plocepasser mahali*, 223–225; *Pseudonigrita arnaudi*, 217, 221–225
- Conebill, Giant, 173; White-browed, 173
- Conirostrum ferrugineiventre*, 173
- Connecticut, 1–16, 593
- Constantz, George D., Growth of nestling Rufous Hummingbirds, 622–624
- Contopus sordidulus*, 262–263, 327, 342
- C. virens*, 893
- Coombs, Franklin, The crows. A study of the corvids of Europe (rev.), 919–920
- Cooper, William T., The birds of paradise and bowerbirds (rev.), 208
- Cooperative breeding (see Communal breeding)
- Coriolis force, 99–116
- Corley, M., see Johnson, D. M., et al.
- Cormorant, Double-crested, 19–26; White-breasted, 434, 444
- Coryphaspiza melanotis*, 369
- Costa Rica, 283–294, 631–633
- Coturnicops* (= *Micropygia*) *schomburgkii*, 367–368
- Coturnix coturnix*, 777–779
- Coulter, Malcolm C., Stones: an important incubation stimulus for gulls and terns, 898–899
- Cowbird, Brown-headed, 253–266, 299–318, 677–682, 684–695
- Crake, Ocellated, 367–368; Rufous-faced, 901–902; White-necked, 367
- Cranioleuca albicapilla*, 170
- C. marcapatae*, 170
- Crawford, Robert L., Wind direction and the species composition of autumn TV tower kills in northwest Florida, 892–895
- Creeper, Brown, 262
- Creurgops dentata*, 174
- Cronmiller, James R., and Charles F. Thompson, Experimental manipulation of brood size in Red-winged Blackbirds, 559–565
- Cuckoo, Mangrove, 625–626; Puerto Rican Lizard, 625–626; Squirrel, 387
- Cullen, John, see Ricklefs, Robert E., et al.
- Custer, Thomas W., Ronald G. Osborn, and William F. Stout, Distribution, species abundance, and nesting-site use of Atlantic coast colonies of herons and their allies, 591–600
- Cyanocitta stelleri*, 262, 343, 345–348
- Cygnus bewickii*, 697–702
- C. columbianus*, 697–702
- C. olor*, 449–462
- Dacelo*, 743
- Dacnis, Tit-like, 174
- Damophila julie*, 387
- Dawson, William R., Brewster Award, 211
- Delacour, Jean, Pheasant breeding and care (rev.), 921
- Delaware, 593
- Dendragapus obscurus*, 404–406, 659
- Dendrocopos nuttallii*, 342
- D. pubescens*, 342
- D. villosus*, 342
- Dendrocygna arcuata*, 902
- Dendroica adelaidae*, 625–626
- D. castanea*, 387, 390, 393, 893
- D. cerulea*, 893
- D. coronata*, 547–557, 655–666, 881–883, 893
- D. discolor*, 893
- D. dominica*, 893
- D. fusca*, 893
- D. magnolia*, 893
- D. nigrescens*, 262, 342, 345–346
- D. occidentalis*, 342
- D. palmarum*, 893
- D. pensylvanica*, 387, 389, 393, 893
- D. petechia*, 262, 266, 819–820, 893
- D. pinus*, 893

- D. striata*, 547–557
Dendropicos fuscescens, 526
Dichromanassa rufescens, 591–599
 Dickcissel, 717–718
 Dickinson, Edward C., see Kennedy, Robert S., and ———
 Dickson, J. G., R. N. Conner, R. R. Fleet, J. C. Kroll, and J. A. Jackson (Eds.), The role of insectivorous birds in forest ecosystems (rev.), 209–210
 Din, N. A., Ecology of pelicans in the Rwenzorie National Park, Uganda (rev.), 921
Dinopium javanense, 526
 Dipper, 262
 Diseases and parasites of *Cygnus olor*, 456–457; *Molothrus ater*, 307, 315
 Distribution of *Accipiter collaris*, 168; *Aglaeactis castelnaudii*, 168–169; *Ajaia ajaja*, 591–599; *Ammodramus aurifrons*, 369; *A. humeralis*, 369; *Anairetes alpinus*, 172; *Anas strepera*, 902; *Andigena hypoglauca*, 169; *Anthraco-thorax dominicus*, 626; *Ara nobilis*, 368; *Aratinga aurea*, 368; *Ardea herodias*, 591–599; *Athenes ottonis*, 171; *A. urubambensis*, 171; *A. virgata*, 171; *Atlapetes leucopterus dres-seri*, 886; **A. l. paynteri**, 885–886; *Bubulcus ibis*, 591–599; *Buteo albicaudatus*, 367; *B. leucorrhous*, 168; *Butorides striatus*, 591–599; *Calidris minuta*, 627–628; *Caryothraustes humeralis*, 174; *Casiornis rufa*, 172; *Casmerodius albus*, 591–599; *Chlorostilbon maugaeus*, 626; *Coccyzus minor*, 625–626; *Colibri coruscans*, 169; *Conirostrum ferrugineiventris*, 174; *Coryphaspiza melanotis*, 369; *Coturnicops* (= *Micropygia*) *schomburgkii*, 367–368; *Cranioleuca albicapilla*, 170; *C. marcapatae*, 170; *Creurgops dentata*, 174; *Cygnus bewickii*, 700–702; *C. columbianus*, 700–702; *Dendroica adelaidae*, 625–626; *Dichromanassa rufescens*, 591–599; *Dubusia* (= *Delothraupis*) *castaneiventris*, 174; *Egretta thula*, 591–599; *Emberizoides herbicola*, 369; *Eudocimus albus*, 591–599; *Florida caerulea*, 591–599; *Gnorimopsar chopi*, 369; *Grallaria erythro-leuca*, 171; *Heliodoxa rubinoides*, 168; *Hemispingus trifasciatus*, 174; *H. xanthophthalmus*, 174; *Hirundo rustica*, 149, 151; *Hydranassa tricolor*, 591–599; *Hymenops perspicillata*, 172; *Icterus dominicensis*, 625–626; *Iridosornis jelskii*, 174; *Laterallus xenopterus*, 901; *Leptasthenura xenothorax*, 169; *L. yanacensis*, 169–170; *Lesbia nuna*, 169; *Melanerpes candidus*, 369; *Metallura aeneocauda*, 169; *M. tryanthina*, 169; *Molothrus ater*, 253–266; *Mycteria americana*, 591–599; *Myiarchus stolidus*, 625–626; *Myiotheretes fumigatus*, 172; *M. fuscorufus*, 172; *Notiochelidon flavipes*, 173; *Nyctanassa violacea*, 591–599; *Nycticorax nycticorax*, 591–599; *Oceanodroma leucorhoa*, 837–852; *Oreomanes fraseri*, 173; *Orenonympha nobilis*, 169; *Pardirallus maculatus*, 407; *Patagona gigas*, 169; *Pelecanus occidentalis*, 491–500; *Petrochelidon fulva*, 149, 151; *P. pyrrhonota*, 151; *Plegadis falcinellus*, 591–599; *Polytmus guainumbi*, 369; *Porzana albicollis*, 367; *Pygoscelis adeliae*, 825; *P. antarctica*, 825; *P. papua*, 825; *Ramphastos toco*, 368; *Rhynchotus rufescens*, 366; *Satrapa icterophrys*, 369; *Saurothera vielloti*, 625–626; *Schizoeaca helleri*, 170–171; *Spizella pusilla*, 705; *Sporophila plumbea*, 369; *Thryothorus euophrys*, 173; *Todus mexicanus*, 625–626; *Tryannus dominicensis*, 625–626; *Uromyias agraphia*, 172–173; *Vermivora chrysoptera*, 1–16; *V. pinus*, 1–16; *Vireo altiloquus*, 625–626; *V. latimeri*, 625–626; *Xenerpestes singularis*, 203–204; *Xenodacnis parina*, 174; *Xenopipo atronitens*, 368; *Xolmis cinerea*, 368–369
 Distribution, spatial, 216–217, 385–395, 396–399, 509–520, 583, 670
 Dod, Annabelle Stockton, First records of the Spotted Rail (*Pardirallus maculatus*) on the island of Hispaniola, 407
Dolichonyx oryzivorus, 893
 Dolnik, Victor R., and Valery M. Gavrillov, Photoperiodic control of the molt cycle in the Chaffinch (*Fringilla coelebs*), 50–62
 Dominican Republic, 407
 Donham, Richard S., see Farner, Donald S., et al.
 Dove, Mourning, 342, 347
 Drobney, Ronald D., Reproductive bioenergetics of Wood Ducks, 480–490
Dromaius novaehollandiae, 744, 747
Dryocopus javensis, 526
D. lineatus, 526
D. pileatus, 526, 529
Dubusia (= *Celothraupis*) *castaneiventris*, 174
 Duck, Wood, 480–489
Dumetella carolinensis, 135–146, 819–820, 893
 Dunlin, 21–26
 Dunn, Erica H., On the variability in the energy allocation of nestling birds, 19–27
Dysithamnus puncticeps, 387, 390
 Eagle, Chilean, 897–898; fish, 434, 443–445
 Ecology, breeding communities, 591–599; clutch size, 38–47; commensal feeding, 94–97, 202; community structure, 283–294, 298, 321–337, 351–365, 385–395; competition, 13–16, 321–337, 624–626, 766; demography, 227–242, 306–311, 316–317, 457–459, 461–462, 473–478, 680–682; dispersal, 253, 259–261, 264–266; habitat partitioning, 283–294, 298, 321–337, 351–365, 766, 782–787, 895–898; habitat selection, 28–36, 160–166, 188–189, 385–395, 436–439, 516–520, 576–580, 723–728, 790–793; population energetics, 20–26; population

- structure, 302-307, 457-459, 461-462, 473-478, 584; predator-prey relationships, 597-598, 616-618, 669-675, 760-766, 786-787, 832-835, 895-898; seasonal variation, 160-166, 261-262, 264-266; sex ratio, 264-265, 305-307, 457-458, 461, 473-478, 584, 588-589; territoriality, 129, 191-193, 385-395, 516-520, 585-586, 588-589, 669-675, 733-740; water dependence, 339-349
- Ecology of *Ajaia ajaja***, 591-599; *Anthracothonax dominicus*, 625; *Aphelocoma coerulescens*, 327; *Archilochus alexandri*, 790-793; *A. colubris*, 790-793; *Ardea herodias*, 591-599; *Bubo virginianus*, 895-896; *Bubulcus ibis*, 591-599; *Buteo galapagoensis*, 581-589; *B. jamaicensis*, 782-787; *B. polyosoma*, 897-898; *Butorides striatus*, 591-599; *Calamospiza melanocorys*, 327; *Calcarius lapponicus*, 516-520; *Campephilus melanoleucos*, 385-395; *Cardinalis sinuatus*, 327; *Casmerodius albus*, 591-599; *Catharacta lonnbergi*, 669-675; *Catharus ustulatus*, 327; *Chamaea fasciata*, 327; *Chlorostilbon maugaeus*, 626; *Coccyzus minor*, 625-626; *Contopus sordidulus*, 327; *Cygnus olor*, 449-462; *Damophila julie*, 385-395; Darwin's finches, 227-242; *Dendroica adelaidae*, 625-626; *D. castanea*, 385-395; *D. pennsylvanica*, 385-395; *Dichromanassa rufescens*, 591-599; *Dysithamnus puncticeps*, 385-395; *Egretta thula*, 591-599; *Elanus leucurus*, 188-189; *Electron platyrhynchum*, 385-395; *Empidonax oberholseri*, 351-365; *E. traillii*, 327, 543-545; *E. virescens*, 385-395; *Eucometis penicillata*, 385-395; *Eudocimus albus*, 591-599; *Florida caerulea*, 591-599; *Geothlypis formosa*, 385-395; *Geranoaetus melanoleucus*, 897-898; *Glyphorhynchus spirurus*, 385-395; *Harpagus bidentatus*, 94-97; *Himatione sanguinea*, 28-36; *Hirundo rustica*, 155-157; *Hydranassa tricolor*, 591-599; *Hylophilus decurtatus*, 385-395; *Hylophylax naevioides*, 385-395; *Icterus dominicensis*, 625-626; *I. parisorum*, 351-365; *Larus argentatus*, 733-740; *L. occidentalis*, 473-478; *Leptasthenura aegithaloides*, 327; *Lonchura striata*, 160-166; *Melanerpes formicivorus*, 351-365; *Microrhopias quixensis*, 385-395; *Mniotilta varia*, 385-395; *Molothrus ater*, 253-266, 306-311, 316-317, 677-682; *Mycteria americana*, 591-599; *Myiarchus cinerascens*, 351-365; *M. stolidus*, 625-626; *M. tuberculifer*, 327, 385-395; *Myrmotherula axillaris*, 385-395; *M. fulviventris*, 385-395; *Nyctanassa violacea*, 591-599; *Nycticorax nycticorax*, 591-599; *Oncostoma olivaceum*, 385-395; *Ornithion brunneicapillum*, 385-395; *Parus wollweberi*, 351-365; *Passerculus sandwichensis*, 721-731; *Passerella iliaca*, 262, 327; *Petrochelidon fulva*, 155-157; *P. pyrrhonota*, 155-157; *Phainopepla nitens*, 327; *Piaya cayana*, 385-395; *Pipra mentalis*, 385-395; *Plegadis falcinellus*, 591-599; *Poliophtila melanura*, 327; *Progne subis*, 327; *Psaltriparus minimus*, 327, 351-365; *Pteroptochos megapodius*, 327; *Pyrocephalus rubinus*, 351-365; *Rhynchocyclus olivaceus*, 385-395; *Saurothera vielloti*, 625-626; *Sclerurus guatemalensis*, 385-395; *Setophaga ruticilla*, 385-395; *Sialia sialis*, 351-365; *Sitta carolinensis*, 327, 351-365; *S. pygmaea*, 327; *Spheniscus magellanicus*, 191-193; *Stercorarius parasiticus*, 832-835; *Sturnella neglecta*, 327; *Tachycineta leucopyga*, 327; *T. thalassina*, 327; *Tachyphonus luctuosus*, 385-395; *Terenotriccus erythrurus*, 385-395; *Thamnophilus punctatus*, 385-395; *Thyromanes bewickii*, 351-365; *Todus mexicanus*, 625-626; *Tolmomyias assimilis*, 385-395; *Toxostoma lecontei*, 327; *T. redivivum*, 327; *Troglodytes aedon*, 327; *Trogon massena*, 385-395; *T. rufus*, 385-395; *Tyrannus dominicensis*, 625-626; *T. vociferans*, 351-365; *Tyto alba*, 760-766, 895-896; *Vermivora chrysoptera*, 13-16; *V. luciae*, 351-365; *V. pinus*, 13-16; *Vestiaria coccinea*, 28-36; *Vireo altiloquus*, 625-626; *V. latimeri*, 625-626; *V. philadelphicus*, 385-395; *Xenops minutus*, 385-395; *Xiphorhynchus guttatus*, 385-395; *X. lachrymosus*, 385-395
- Ectoparasitism** (see Diseases and parasites)
- Eggs**, composition, 481; density, 486; laying, 191-192, 270-272, 454, 460, 480-489, 494-500; physiology, 177-184, 481; replacement, 271-272; size differences, 754-758; water-vapor conductivity, 177-184
- Eggs**, descriptions and measurements, *Aix sponsa*, 481; *Oceanodroma furcata*, 270; *Penelope albipennis*, 891; *Petrochelidon pyrrhonota*, 171-184; *Pithys albifrons*, 408
- Egret**, Cattle, 591-599; Great, 591-599; Reddish, 591-599; Snowy, 591-599
- Egretta thula**, 591-599
- Eisenmann, E.**, reviews by, 647-649
- Eiserer, Leonard**, Ontogeny of roosttime restlessness in the American Robin, 194-196; Effects of grass length and mowing on foraging behavior of the American Robin (*Turdus migratorius*), 576-580
- Elanus leucurus**, 186-189, 795-804
- Electron platyrhynchum**, 387
- Elman, Robert**, First in the field: America's pioneering naturalists (rev.), 643-644
- Emberizoides herbicola**, 369
- Emerald**, Puerto Rican, 626
- Emlen, John T.**, Commentary: Welcome mathematicians, 412-413
- Empidonax difficilis**, 262, 342
- E. oberholseri**, 351-365
- E. spp.**, 262

- E. trailii*, 327, 533–545
E. virescens, 387, 390, 893
Enaliornis, 88
 Energetics model, 795–804
 England, 700–703
 Environment, influence on *Accipiter cooperii*, 348;
A. striatus, 798; *Ammodramus savannarum*,
 892–895; *Aphelocoma coerulescens*, 348; *Buteo*
jamaicensis, 348, 786, 798; *Calypte anna*,
 348; *Carpodacus purpureus*, 348; *Cathartes*
aura, 348; *Catharus fuscescens*, 892–895; *C.*
guttatus, 892–895; *C. minimus*, 892–895; *C.*
ustulatus, 892–895; *Chamaea fasciata*, 348;
Cistothorus palustris, 892–895; *C. platensis*,
 892–895; clutch size, 38–47; *Colaptes auratus*,
 348; *Columba fasciata*, 348; *Contopus sordid-*
ulus, 348; *C. virens*, 892–895; *Cyanocitta*
stelleri, 348; Darwin's finches, 227–242; *Dendro-*
copus nuttallii, 348; *D. pubescens*, 348; *D.*
villosus, 348; *Dendroica castanea*, 892–895;
D. cerulea, 892–895; *D. coronata*, 881–882,
 892–895; *D. discolor*, 892–895; *D. dominica*,
 892–895; *D. fusca*, 892–895; *D. magnolia*,
 892–895; *D. nigrescens*, 348; *D. occidentalis*,
 348; *D. palmarum*, 892–895; *D. pensylvanica*,
 892–895; *D. petechia*, 892–895; *D. pinus*,
 892–895; *Dolichonyx oryzivorus*, 892–895;
Dumetella carolinensis, 892–895; *Elanus leu-*
curus, 800–802; *Empidonax difficilis*, 348; *E.*
virescens, 892–895; *Falco cherrug*, 798; *F.*
columbarius, 798; *F. mexicanus*, 798; *F.*
sparverius, 798, 800–802; *F. tinnunculus*,
 798; flight, 99–117; *Fringilla coelebs*, 50–61;
Geothlypis trichas, 892–895; *Helmitheros ver-*
vivorus, 892–895; *Himatione sanguinea*, 35–
 36; *Hylocichla mustelina*, 892–895; *Icteria*
virens, 892–895; *Icterus galbula*, 348; *Junco*
hyemalis, 348; *J. phaeonotus*, 874; *Lagopus*
lagopus, 605–607; *Limnithlypis swainsonii*,
 892–895; *Lonchura striata*, 160–166; *Lophor-*
tyx californicus, 348; *Melanerpes formicovov-*
rus, 348; *Meleagris gallopavo*, 857–859; *Me-*
lospiza georgiana, 892–895; *M. melodia*, 892–
 895; *Mniotilta varia*, 892–895; *Molothrus*
ater, 304–307, 310, 314–315, 679, 693; morn-
ing migration, 468–471; *Myiarchus cinerasc-*
ens, 348; *Nuttallornis borealis*, 348; *Ocea-*
nodroma furcata, 277–280; *O. leucorhoa*, 851;
Oporornis formosus, 892–895; *Oreortyx pic-*
tus, 348; *Parula americana*, 892–895; *Parus*
inornatus, 348; *Passer domesticus*, 398–399;
Passerculus sandwichensis, 892–895; *Passer-*
ina cyanea, 892–895; *Pelecanus occidentalis*,
 500–505; *Petrochelidon pyrrhonota*, 177–184;
Phainopepla nitens, 865–866; *Pheucticus me-*
lanocephalus, 348; *Philetarius socius*, 224–
 225; *Pipilo erythrophthalmus*, 348, 892–895;
P. fuscus, 348; *Piranga ludoviciana*, 348; *P.*
olivacea, 892–895; *P. rubra*, 892–895; *Ploce-*
passer mahali, 224–225; *Protonotaria citrea*,
 892–895; *Psaltriparus minimus*, 348; *Pseu-*
donigrita arnaudi, 215, 224–225; *Psilorhinus*
morio, 632–633; *Regulus calendula*, 892–895;
Seiurus aurocapillus, 892–895; *S. noveborac-*
ensis, 892–895; *Setophaga ruticilla*, 892–895;
Sialia mexicana, 348; *Sitta carolinensis*, 348;
Spinus psaltria, 348; *Spizella passerina*, 348,
 892–895; *S. pusilla*, 704–718; *Tachycineta*
thalassina, 348; *Thryomanes bewickii*, 348;
Toxostoma redivivum, 348; *T. rufum*, 892–
 895; *Troglodytes aedon*, 348, 892–895; *Turdus*
migratorius, 348; *Vermivora celata*, 348, 892–
 895; *V. chrysoptera*, 892–895; *V. peregrina*,
 892–895; *Vestiaria coccinea*, 35–36; *Vireo*
flavifrons, 892–895; *V. gilvus*, 348; *V. griseus*,
 892–895; *V. huttoni*, 348; *V. olivaceus*, 892–
 895; *V. solitarius*, 348; *Wilsonia citrina*, 892–
 895; *W. pusilla*, 348; *Zenaida macroura*, 348;
Zonotrichia albicollis, 892–895; *Z. leuco-*
phrys, 63–72, 76–83
 Erickson, Ray C., review by, 209
 Étchécopar, R. D., and F. Hüe, Les oiseaux de
 Chine, de Mongolie et de Corée; non passe-
 reaux (rev.), 427–428
 Ettinger, Amelia O., and James R. King, Time
 and energy budgets of the Willow Flycatcher
 (*Empidonax trailii*) during the breeding sea-
 son, 533–546
Eucometis penicillata, 387
Eudocimus albus, 591–599
Eudyptes chrysocome, 754–758
E. chrysolophus, 754–758
E. crestatus, 754–758
Euphagus cyanocephalus, 262–263
 Evans, Mary E., and William J. L. Sladen, A.
 comparative analysis of the bill markings of
 Whistling and Bewick's swans and out-of-
 range occurrences of the two taxa, 697–703
 Evolution of aggressive displays, 200–201; behav-
 ior, 118–119; birds, 86–92; clutch size, 563–
 565; communal breeding, 586–589; epidermal
 structures, 742–751; feather pigmentation,
 882–883; polyandry, 586–589
 Evolution of *Ardea goliath*, 446; *Catharus fusces-*
cens, 140–146; *C. guttatus*, 140–146; *C. min-*
imus, 140–146; *C. ustulatus*, 140–146; *Den-*
droica coronata, 662–666; *Dumetella*
carolinensis, 140–146; *Hylocichla mustelina*,
 140–146; *Meleagris gallopavo*, 857–859; *Re-*
gulus calendula, 140–146; *Sialia sialis*, 140–
 146; *Spizella pusilla*, 717–718; *Turdus mi-*
gratorius, 140–146
 Faaborg, John, Tjitte de Vries, Cindy B. Patter-
 son, and Curtice R. Griffin, Preliminary ob-
 servations on the occurrence and evolution of
 polyandry in the Galapagos Hawk (*Buteo ga-*
lapagoensis), 581–590; Further observations

- on ecological release in Mona Island birds, 624-627
- Falco cherrug*, 798
- F. columbarius*, 798
- F. mexicanus*, 798
- F. sparverius*, 629-630, 795-804
- F. tinnunculus*, 798
- Farner, Donald S., Richard S. Donham, Michael C. Moore, and Robert A. Lewis, The temporal relationship between the cycle of testicular development and molt in the White-crowned Sparrow, *Zonotrichia leucophrys gambelii*, 63-75; see Hunt, G. L., Jr., et al.
- Feathers (see Molts and plumages)
- Finch, Black-masked, 369; Cut-throat, 222; Melba, 118, 122-126; Purple, 342
- Fitzpatrick, John W., A new race of *Atlapetes leucopterus*, with comments on widespread albinism in *A. l. dresseri* (Taczanowski), 883-887; review by, 906-908
- Flatbill, Olivaceous, 387
- Fledging, success of (see Breeding success)
- Flicker, Common, 342, 521-522, 524-526, 529
- Flight, effect of feather pigmentation on, 882-883
- Florida, 135-146, 202, 371-383, 399-400, 491-498, 500, 593, 869-872, 892-895
- Florida caerulea*, 371-383, 591-599
- Flycatcher, Acadian, 387, 390; Ash-throated, 342, 351-365; Dusky, 351-365; Dusky-capped, 387; Olive-sided, 262, 342; Ruddy-tailed, 387, 390, 393; Stolid, 625-626; Vermilion, 351-365; Western, 262, 342; Willow, 533-545; Yellow-margined, 387
- Fontaine, Roy, Observations on the foraging association of Double-toothed Kites and white-faced capuchin monkeys, 94-98
- Food and feeding habits of *Accipiter cooperii*, 342; *Aglaeactis castelnaudii*, 168-169; *Aix sponsa*, 484-489; *Anairetes alpinus*, 172; *Aphelocoma coerulescens*, 202, 343; *Ara nobiles*, 368; *Archilochus alexandri*, 790-793; *A. colubris*, 790-793; *Ardea goliath*, 435-446; *A. herodias*, 900; *Asthenes ottonis*, 171; *Athene cunicularia*, 616-618; *Blythipicus rubiginosus*, 526; *Bubo virginianus*, 895-896; *Buteo jamaicensis*, 342; *B. polyosoma*, 897-898; *Calcaricus lapponicus*, 513-520; *Calidris minuta*, 627; *C. pusilla*, 627; *Calypte anna*, 342; *Camarhynchus pallidus*, 239; *Campephilus principalis*, 527; *Campethera abingoni*, 526; *C. bennettii*, 526; *Carpodacus purpureus*, 342; *Catharacta lonnbergi*, 669-675; *C. macrorhynchos*, 672; *Cathartes aura*, 342; *Chamaea fasciata*, 342; *Chionis alba*, 672; *Chrysocolaptes lucidus*, 526; *Chrysoptilus melanochloros*, 526; *C. punctigula*, 526; *Coccyzus minor*, 625; *Colaptes auratus*, 342, 526, 529; *C. campestris*, 526; *C. pitius*, 526; *Colibri coruscans*, 169; *Columba fasciata*, 342; *Conirostrum ferrugineiventris*, 173; *Contopus sordidulus*, 342; *Cranioleuca albicapilla*, 170; *C. marcapatae*, 170; *Creurgops dentata*, 174; *Cyanocitta stelleri*, 343; *Dendrocopus nuttallii*, 342; *D. pubescens*, 342; *D. villosus*, 342; *Dendroica adelaidae*, 625; *D. nigrescens*, 342; *D. occidentalis*, 342; *Dendroica fuscescens*, 526; *Dinopium javanense*, 526; *Dryocopus javensis*, 526; *D. lineatus*, 526; *D. pileatus*, 526, 529; *Dubusia* (= *Delothraupis*) *castaneovenstris*, 174; *Elanus leucurus*, 186-189, 801-803, 806; *Empidonax difficilis*, 342; *E. oberholseri*, 354-359; *Falco sparverius*, 629-630, 801-803, 806; *Geospiza conirostris*, 239; *G. fuliginosa*, 888-889; *G. scandens*, 239; *Geraunoetus melanoleucus*, 897-898; *Gvallaria erythroleuca*, 171; *Haliaeetus vocifer*, 443-445; *Harpagus bidentatus*, 94-97; *Hemicircus concretus*, 526; *Hemispingus trifasciatus*, 174; *H. xanthophthalmus*, 174; *Himantopus mexicanus*, 633-636; *Himatione sanguinea*, 28, 33-34; *Hydranassa tricolor*, 399-400; *Hymenops perspicillata*, 172; *Icterus dominicensis*, 625; *I. galbula*, 342; *I. parisorum*, 354-359; *Iridoprocne jelskii*, 174; *Junco hyemalis*, 343; *J. phaeonotus*, 872-875; *Jynx ruficollis*, 526, 528; *J. torquilla*, 526, 528; *Larus dominicanus*, 672; *Leptasthenura xenothorax*, 169; *Lesbia nuna*, 169; *Lonchura striata*, 160-166; *Lophortyx californicus*, 343; *Macronectes giganteus*, 672; *Meiglyptes tristis*, 526; *M. tukki*, 526; *Melanerpes aurifrons*, 526; *M. carolinus*, 526, 528-529; *M. erythrocephalus*, 526, 528-529; *M. formicivorus*, 342, 354-359, 526, 528-529; *M. lewis*, 526, 528-529; *M. rubricapillus*, 526; *M. striatus*, 526; *M. uropygialis*, 526; *Metallura aeneocauda*, 169; *Micropodops brachyurus*, 526; *Microrhopias quixensis*, 388; *Mimus polyglottos*, 869-872; *Molothrus ater*, 253, 259-261, 265-266, 689, 691-692; *Mulleripicus pulverulentus*, 527; *Myiarchus cinerascens*, 342, 354-359; *M. stolidus*, 625; *Myiotheretes fumigatus*, 172; *M. fusciorufus*, 172; *Myrmotherula fulviventris*, 388; *Nesocittes micromegas*, 526, 529; *Nesomimus parvulus*, 887-889; *Nuttallornis borealis*, 342; *Oceanodroma furcata*, 275-276, 278-280; *O. leucorhoa*, 574-575; *Oreomanes fraseri*, 173; *Oreonympha nobilis*, 169; *Oreortyx pictus*, 343; *Parabuteo unicinctus*, 196-197; *Parus inornatus*, 342; *P. wollweberi*, 354-359; *Patagona gigas*, 169; *Pelecanus onocrotalus*, 444; *P. rufescens*, 444; *Phalacrocorax carbo*, 444; *Pheucticus melanocephalus*, 343; *Philetarius socius*, 223; *Phloeocastes melanoleucos*, 526; *Picoides arcticus*, 527-529; *P. arizonae*, 526; *P. borealis*, 526; *P. canicapil-*

- lus*, 526, 528; *P. leucotos*, 527; *P. lignarius*, 526; *P. macei*, 526; *P. major*, 526; *P. nuttallii*, 526; *P. pubescens*, 526; *P. scalaris*, 526, 528; *P. syriacus*, 526; *P. tridactylus*, 527-529; *P. villosus*, 526, 528-529; *Piculus chrysochloros*, 526; *P. rivolii*, 526; *Picumnus cirrhatus*, 526, 528; *Picus canus*, 526; *P. chlorolophus*, 526; *P. flavinucha*, 526; *P. mentalis*, 526; *P. viridis*, 526; *P. vittatus*, 526; *Pipilo erythrophthalmus*, 343; *P. fuscus*, 343; *Piranga ludoviciana*, 342; *Platyspiza crassirostris*, 239; *Plocepasser mahali*, 223; *Psaltriparus minimus*, 342, 354-359; *Pseudonigrita arnaudi*, 219-222; *Pyrocephalus rubinus*, 354-359; *Sasia abnormis*, 526, 528-529; *Saurothera vielloti*, 625; *Sialia mexicana*, 342; *S. sialis*, 354-359; *Sitta carolinensis*, 342, 354-359; *Sphyrapicus thyroideus*, 526; *S. varius*, 526, 529; *Spinus psaltria*, 343; *Spizella passerina*, 342; *Stercorarius parasiticus*, 832-835; *Sturnus vulgaris*, 870; *Tachycineta thalassina*, 342; *Thripas namaquus*, 526; *Thryomanes bewickii*, 342, 354-359; *Todus mexicanus*, 625; *Toxostoma redivivum*, 342; *Trichopicus cactorum*, 526; *Troglodytes aedon*, 342; *Turdus migratorius*, 342, 576-580; *Tyrannus dominicensis*, 625; *T. vociferans*, 354-359; *Tyto alba*, 760-766, 895-896; *Uromyias agraphia*, 172-173; *Veniliornis passerinus*, 526; *Vermivora celata*, 342; *V. luciae*, 354-359; *Verreauxia africana*, 523; *Vestiaria coccinea*, 28, 33-34; *Vireo altiloquus*, 625; *V. gilvus*, 342; *V. huttoni*, 342; *V. latimeri*, 625; *V. solitarius*, 342; *Wilsonia pusilla*, 342; *Xanthocephalus xanthocephalus*, 620-622; *Xenopetes singularis*, 203; *Xenodacnis parina*, 174; *Zenaida macroura*, 342
- Foraging (see Food and feeding habits; Behavior, feeding)
- Fossils of *Archaeopteryx*, 86-92; *Baptornis*, 88; *Enaliornis*, 88; *Hesperornis*, 88-91; *Ichthyornis*, 89-92
- Fratercula arctica*, 833
- Fretwell, Stephen D., Commentary: On the philosophical basis of ornithology, 420-422
- Fringilla coelebs*, 50-61
- Fulmar, Southern Giant, 670, 672
- Furness, Bridget L., and Robert W. Furness, Apostatic selection and kleptoparasitism in the Parasitic Jaeger: a comment, 832-836
- Furness, Robert W., see Furness, Bridget L., and _____
- Gabon, 283-294
- Gadwall, 902
- Galápagos Islands, 227-242, 581-589, 887-889
- Gallus gallus*, 602, 604, 743, 745, 747
- Garganey, 902
- Gavrillov, Valery M., see Dolnik, Victor R., and _____
- Genetic variation in (see Genetics, genetic variation)
- Genetics, gene flow, 663-666; genetic variation, 138-141, 655-662, 713
- Genetics of *Anas platyrhynchos*, 876-877; *Aplonis cantoroides*, 659; *A. metallica*, 659; *Catharus fuscescens*, 135-146; *C. guttatus*, 135-146; *C. minimus*, 135-146; *C. ustulatus*, 135-146; *Dendragapus obscurus*, 659; *Dendroica coronata*, 655-666; *Dumetella carolinensis*, 135-146; *Hirundo rustica*, 150-151; *Hylocichla mustelina*, 135-146; *Icterus galbula*, 659; *Petrochelidon fulva*, 150-151; *P. pyrrhonota*, 151; *Regulus calendula*, 135-146; *Sialia sialis*, 135-146; *Turdus migratorius*, 135-146; *Zonotrichia capensis*, 659; *Z. leucophrys*, 659
- Geographic variation in clutch size, 38-47; community structure, 283-294, 361-362; eggs, 177-184; plumage coloration, 837-852; size, 840-843
- Geographic variation of *Dendroica coronata*, 656, 662-666; *Oceanodroma leucorhoa*, 837-852; *Petrochelidon pyrrhonota*, 177-184
- George, Mary Wissink, Hummingbird foraging behavior at *Malva viscus arboreus* var. *drummondii*, 790-794
- Georgia, 135-146, 205, 593
- Geospiza conirostris*, 239
- G. fortis*, 239
- G. fuliginosa*, 239, 888-889
- G. scandens*, 239
- Geothlypis formosa*, 387, 390
- G. trichas*, 547-557, 893
- Geranoaetus melanoleucus*, 897-898
- Ghrist, R., see Johnson, D. M. et al.
- Gill, Frank B., Historical aspects of hybridization between Blue-winged and Golden-winged warblers, 1-18
- Galucidium brasilianum*, 764
- Glyphorynchus spirurus*, 387, 389-391
- Gnorimopsar chopi*, 369
- Gochfeld, Michael, Timing of breeding and chick mortality in central and peripheral nests of Magellanic Penguins, 191-193
- Goldenthrout, White-tailed, 368
- Goldfinch, Lesser, 343, 345, 348
- Goshawk, Gabar, 222
- Gradwohl, Judy, and Russell Greenberg, The formation of antwren flocks on Barro Colorado Island, Panamá, 385-396
- Graham, Gary L., Gary R. Graves, Thomas S. Schulenberg, and John P. O'Neill, Seventeen bird species new to Peru from the Pampas de Heath, 366-370
- Grallaria erythroleuca*, 171
- Grant, Peter R., and Peter T. Boag, Rainfall on

- the Galápagos and the demography of Darwin's finches, 277-243
- Grass-Finch, Wedge-tailed, 369
- Graves, Gary R., see Graham, Gary L. et al.
- Greenberg, Russell, see Gradwohl, Judy, and —
- Greenlet, Lesser, 387, 393
- Griffin, Curtice R., see Faaborg, John et al.
- Grosbeak, Black-headed, 262-263, 341, 343, 346-348; Evening, 262; Rose-breasted, 466, 819-820; Yellow-shouldered, 174
- Ground-Finch, Small, 888-889
- Grouse, Blue, 404-406
- Growth and development of *Agelaius phoeniceus*, 561-564; *Calidris alpina*, 21-26; *Cephus columba*, 21-26; *Coturnix coturnix*, 777-779; *Empidonax traillii*, 542; *Hirundo rustica*, 154-155; hybrids of *Hirundo rustica* × *Petrochelidon* spp., 154-155; *Larus argentatus*, 21-26; *Oceanodroma furcata*, 274-278; *O. leucorhoa*, 566-575, 768-780; *Passerculus sandwichensis*, 721-731; *Petrochelidon fulva*, 154-155; *Phalacrocorax auritus*, 19-26; *Selasphorus rufus*, 622-624; *Sterna hirundo*, 777-779; *Sturnus vulgaris*, 21-26, 777-779
- Guadalupe Island, 837-852
- Guan, White-winged, 889-891
- Guillemot, Pigeon, 21-26
- Gulf of Mexico, 499-500
- Gull, Black-backed, 670-672; Glaucous-winged, 276; Herring, 21-26, 733-740; Kelp, 756, Western, 473-478, 898-899
- Habitat of *Accipiter collaris*, 168; *A. cooperii*, 339-349; *Aglaeactis castelnaudii*, 168-169; *Ammodramus aurifrons*, 366; *A. humeralis*, 366; *Anairetes alpinus*, 172; *Anas strepera*, 902; *Andigena hypoglauca*, 169; *Aphelocoma coerulescens*, 339-349; *Ara nobilis*, 366; *Aratinga aurea*, 366; *Ardea goliath*, 434-439; *Asthenes ottonis*, 171; *A. urubambensis*, 171; *A. virgata*, 171; *Atlapetes leucopterus dresseri*, 886; *A. l. paynteri*, 886; *Aythya valisineria*, 198; *Buteo albicaudatus*, 366; *B. galapagoensis*, 582; *B. jamaicensis*, 339-349, 783-784; *B. leucorrhous*, 168; *Calidris minuta*, 627; *Calypte anna*, 339-349; *Campephilus melanoleucos*, 386-387; *Carpodacus purpureus*, 339-349; *Caryothraustes humeralis*, 174; *Casiornis rufa*, 172; *Cathartes aura*, 339-349; *Chamaea fasciata*, 339-349; *Colaptes auratus*, 339-349; *Colibri coruscans*, 169; *Columba fasciata*, 339-349; *Conirostrum ferrugineiventris*, 173; *Contopus sordidulus*, 339-349; *Coryphaspiza melanotis*, 366; *Coturnicops* (= *Micropygia*) *schomburgkii*, 366; *Cranioleuca albicapilla*, 170; *C. marcapatae*, 170; *Creurgops dentata*, 174; *Cyanocitta stelleri*, 339-349; *Damophila julie*, 386-387; *Dendrocopus nuttallii*, 339-349; *D. pubescens*, 339-349; *D. villosus*, 339-349; *Dendroica castanea*, 386-387; *D. nigrescens*, 339-349; *D. occidentalis*, 339-349; *D. pensylvanica*, 386-387; *Dubusia* (= *Delothraupis*) *castaneovenetris*, 174; *Dysithamnus puncticeps*, 386-387; *Electron platyrhynchum*, 386-387; *Emberizoides herbicola*, 366; *Empidonax difficilis*, 339-349; *E. oberholseri*, 352-353; *E. virescens*, 386-387; *Eucometis pencillata*, 386-387; *Geothlypis formosa*, 386-387; *Glyphorhynchus spirurus*, 386-387; *Gnorimopsar chopi*, 366; *Grallaria erythroleuca*, 171; *Haliaeetus vocifer*, 434-435; *Heliodoxa rubinoides*, 168; *Hemispingus trifasciatus*, 174; *H. xanthophthalmus*, 174; *Himatione sanguinea*, 28, 35; *Hylophilus decurtatus*, 386-387; *Hylophylax naevioides*, 386-387; *Hymenops perspicillata*, 172; *Icterus galbula*, 339-349; *I. parisorum*, 352-353; *Iridosornis jelskii*, 174; *Junco hyemalis*, 339-349; *Laterallus xenopterus*, 901; *Leptasthenura xenothorax*, 169; *L. yanacensis*, 169-170; *Lesbia nuna*, 169; *Lophortyx californicus*, 339-349; *Melanerpes candidus*, 366; *M. formicivorus*, 339-349, 352-353; *Metallura aeneocauda*, 169; *M. tyrannina*, 169; *Microhoppas quixensis*, 386-387; *Mniotilta varia*, 386-387; *Molothrus ater*, 253-266; *Myiarchus cinerascens*, 339-349, 352-353; *M. tuberculifer*, 386-387; *Myiotheretes fumigatus*, 172; *M. fuscus*, 172; *Myrmotherula axillaris*, 386-387; *M. fulviventris*, 386-387, 391-392; *Notiochelidon flavipes*, 173; *Nuttallornis borealis*, 339-349; *Oceanodroma furcata*, 268, 278-280; *Oncostoma olivaceum*, 386-387; *Oreomanes fraseri*, 173; *Oreonympha nobilis*, 169; *Oreortyx pictus*, 339-349; *Ornithion brunneicapillum*, 386-387; *Parus inornatus*, 339-349; *P. wollweberi*, 352-353; *Passerculus sandwichensis*, 721-731; *Patagona gigas*, 169; *Pelecanus onocrotalus*, 434-435; *P. rufescens*, 434-435; *Penelope albipennis*, 890-891; *Phalacrocorax carbo*, 434-435; *Pheucticus melanocephalus*, 339-349; *Philetarius socius*, 224-225; *Piaya cayana*, 386-387; *Pipilo erythrophthalmus*, 339-349; *P. fuscus*, 339-349; *Pipra mentalis*, 386-387; *Piranga ludoviciana*, 339-349; *Polytmus guainumbi*, 366; *Porzana albicollis*, 366; *Psalltriparus minimus*, 339-349, 352-353; *Pseudonigrita arnaudi*, 214, 224-225; *Pyrocephalus rubinus*, 352-353; *Rampastos toco*, 366; *Rhynchocyclus olivaceus*, 386-387; *Rhynchotus rufescens*, 366; *Satrapa icterophrys*, 366; *Schizoeaca helleri*, 170-171; *Sclerurus guatemalensis*, 386-387; *Setophaga ruticilla*, 386-387; *Sialia mexicana*, 339-349; *S.*

- sialis*, 352-353; *Sitta carolinensis*, 339-349, 352-353; *Spinus psaltria*, 339-349; *Spizella passerina*, 339-349; *Sporophila plumbea*, 366; *Tachycineta thalassina*, 339-349; *Tachyphonus luctuosus*, 386-387; *Terenotriccus erythrorurus*, 386-387; *Thamnophilus punctatus*, 386-387; *Thryomanes bewickii*, 339-349, 352-353; *Thryothorus euophrys*, 173; *Tolmomyias assimilis*, 386-387; *Toxostoma redivivum*, 339-349; *Troglodytes aedon*, 339-349; *Trogon massena*, 386-387; *T. rufus*, 386-387; *Turdus migratorius*, 339-349; *Tyrannus vociferans*, 352-353; *Tyto alba*, 760; *Uromyias agraphia*, 172-173; *Vermivora celata*, 339-349; *V. chrysoptera*, 10-11, 14; *V. luciae*, 352-353; *V. pinus*, 10-11, 14; *Vestiaria coccinea*, 28, 35; *Vireo gilvus*, 339-349; *V. huttoni*, 339-349; *V. philadelphicus*, 386-387; *V. solitarius*, 339-349; *Wilsonia pusilla*, 339-349; *Xenerpestes singularis*, 203; *Xenodacnis parina*, 174; *Xenopipo atronitens*, 366; *Xenops minutus*, 386-387; *Xiphorhynchus guttatus*, 386-387; *X. lachrymosus*, 386-387; *Xolmis cinerea*, 366; *Zenaidra macroura*, 339-349; *Zonotrichia capensis*, 400
- Haematopus palliatus*, 205
- Hagner, J., see Johnson, D. M., et al.
- Haliaeetus vocifer*, 434, 443-445
- Handford, Paul, Aspects of the annual cycle in highland populations of the Rufous-collared Sparrow, *Zonotrichia capensis*, 400-403
- Hanley, Wayne, Natural history in America: from Mark Catesby to Rachel Carson (rev.), 643-644
- Hannon, Susan J., The cackle call of female Blue Grouse: does it have a mating or aggressive function?, 404-407
- Hansen, Rick L., see Myers, Philip, and Hardy, J. W., review by, 919
- Harman, Ian, and M. M. Vriends, All about finches and other seed-eating birds (rev.), 653
- Harpagus bidentatus*, 94-97
- Harrison, Hal H., A field guide to western birds' nests in the United States west of the Mississippi River (rev.), 915-917
- Hassell, Michael P., The dynamics of arthropod predator-prey systems (rev.), 430-431
- Hatching, success of (see Breeding success)
- Hatler, David F., R. Wayne Campbell, and Adrian Dorst, Birds of Pacific Rim National Park (rev.), 210
- Hawaii, 28-36
- Hawk, Broad-winged, 631; Common Black, 631; Cooper's, 342; Galapagos, 581-589; Harrier, 222; Harris', 196-197; Red-tailed, 342, 782-787; Semicollared, 168; White-rumped, 168; White-tailed, 367
- Heliodoxa rubinoides*, 168
- Helmitheros vermivorus*, 893
- Hemicircus concretus*, 526
- Hemispingus, Drab, 174; Three-striped, 174
- Hemispingus trifasciatus*, 174
- H. xanthophthalmus*, 174
- Henry, G. M., A guide to the birds of Ceylon (rev.), 432
- Heron, Black-crowned Night, 591-599; Goliath, 433-446; Great Blue, 591-599, 900; Green, 591-599; Little Blue, 371-383, 591-599; Louisiana, 399-400, 591-599; Yellow-crowned Night, 591-599
- Herrera, Carlos M., and Fabian M. Jaksić, Feeding ecology of the Barn Owl in central Chile and southern Spain: a comparative study, 760-767
- Hesperiphona vespertina*, 262
- Hesperornis*, 88-91
- Hill, C. A., W. C. Warren, and E. E. Wolf, AAZPA manual of Federal wildlife regulations (rev.), 917-918
- Himantopus mexicanus*, 633-636
- Himatione sanguinea*, 28-36
- Hirundo rustica*, 148-158
- Hispaniola, 407
- Höhn, E. O., and C. E. Braun, Hormonal induction of feather pigmentation in ptarmigan, 601-607
- Holmes, Richard T., review by, 426
- Homberger, Dominique G., review by, 912-914
- Home range (see Territory)
- Horne, J. F. M., see Short, L. L., and ———
- Hower, Rolland O., Freeze-drying biological specimens: a laboratory manual (rev.), 652
- Hummingbird, Anna's 342; Black-chinned, 790-793; Ruby-throated, 790-793; Rufous, 622-624; Violet-bellied, 387
- Hunt, G. L., Jr., J. C. Wingfield, A. Newman, and D. S. Farner, Sex ratio of Western Gulls on Santa Barbara Island, California, 473-479
- Hussell, David J. T., and Anne B. Lambert, New estimates of weight loss in birds during nocturnal migration, 547-558
- Hybridization of *Atlapetes albiceps* × *A. l. dreseri*, 886; *Cygnus bewickii* × *C. columbianus*, 700-701; *Dendroica coronata*, 655-666; *Hirundo rustica* × *Petrochelidon* spp., 148-158; *Vermivora chrysoptera* × *V. pinus*, 1-16; *Vidua chalybeata* × *V. regia*, 128; *Vidua macroura* × *V. funerea*, 129; *Vidua purpurascens* × *V. paradisaea*, 118-132; *Vidua purpurascens* × *V. regia*, 128; *Vidua regia* × *V. paradisaea*, 129
- Hydranassa tricolor*, 399-400, 591-599
- Hylocichla mustelina*, 135-146, 893
- Hylophilus decurtatus*, 387, 393
- Hylophylax naevioides*, 387
- Hymenops perspicillata*, 172

- Ibis, Glossy, 591-599; White, 591-599
 Iceland, 832-835
Ichthyornis, 88-92
Icteria virens, 893
Icterus dominicensis, 625-626
I. galbula, 262, 342, 466, 659, 819-820
I. parisorum, 351-365
 Iiwi, 28-36
 Illinois, 704-718
 Incubation in *Aix sponsa*, 488-489; *Calcarius lapponicus*, 510; *Empidonax traillii*, 540-541; *Eudryptes chrysocome*, 754-758; *E. chrysolophus*, 754-758; *E. crestatus*, 754-758; *Florida caerulea*, 380; *Larus occidentalis*, 898-899; *Oceanodroma furcata*, 272; *Penelope albipennis*, 891; *Petrochelidon pyrrhonota*, 184; *Philetarius socius*, 223; *Pithys albifrons*, 408; *Plocepasser mahali*, 223-224; *Pseudonigrita arnaudi*, 216; *Pygoscelis adeliae*, 827-829; *P. antarctica*, 828-829; *P. papua*, 828-829; *Sterna hirundo*, 899; *Zonotrichia capensis*, 402
 Indigobird, Dusky, 118-132; Village, 121, 127-129, 131
 Ingels, Johan, A nest of the White-plumed Antbird (*Pithys albifrons*) in Surinam, 407-408
 Innis, George S., see Balph, David F., et al.
 Ireland, 700
Iridosornis jelskii, 174
 Irwin, M. P. Stuart, A bibliography of the birds of Rhodesia (rev.), 921
 Islands, biogeography of, 227-242, 624-626
 Jaeger, Parasitic, 832-835
 Jaksic, Fabian M., José L. Yáñez, and Roberto P. Schlatter, Prey of the Harris' Hawk in central Chile, 196-198; see Schlatter, Roberto P., Benigno Toro, José L. Yáñez, and ———; see Schlatter, Roberto P., José L. Yáñez, Herman Núñez, and ———; see Yáñez, José L., et al.; see Herrera, Carlos M., and ———; and José L. Yáñez, Differential utilization of prey resources by Great Horned Owls and Barn Owls in central Chile, 895-896; see Schlatter, Roberto P., José L. Yáñez, and ———
 Japan, 700-703
 Jay, Brown, 631-633; Scrub, 202, 343, 345-347; Steller's 262, 343, 345-348
 Jehl, J. R., Jr., review by, 908-909
 Johnsgard, Paul A., A guide to North American waterfowl (rev.), 653; Copulatory behavior of the American Bittern, 868-869
 Johnson, D. M., J. L. Stewart, M. Corley, R. Ghrist, G. Hagner, A. Ketterer, B. McDonnell, W. Newsom, E. Owen, and P. Samuels, Brown-headed Cowbird (*Molothrus ater*) mortality in an urban winter roost, 299-320
 Junco, Dark-eyed, 262, 343, 345, 348; Yellow-eyed, 872-875
Junco hyemalis, 262, 343, 345, 348
J. phaeonotus, 872-875
Jynx ruficollis, 523, 526, 528
J. torquilla, 521-526, 528
 Kádár, Zoltán, Survivals of Greek zoological illuminations in Byzantine manuscripts (rev.), 429-430
 Kalchreuter, Heribert, Die Waldschneepfe (rev.), 651
 Kale, Herbert W., II, editor of Recent Literature, 1A-32A, 1B-27B, 1C-24C, ID-23D
 Karr, James R., Geographical variation in the avifaunas of tropical undergrowth, 283-298
 Kastner, Joseph, A species of eternity (rev.), 643-644
 Kendeigh, S. Charles, see Olson, John B., and ———
 Kennedy, Robert S., and Edward C. Dickinson, First record of the Gadwall from the Philippines, 902
 Kenya, 213-225
 Kern, Michael, see Skowron, Carol, and ———
 Kestrel, American, 629-630, 795-804
 Ketterer, A., see Johnson, D. M., et al.
 Kiff, Lloyd, review by, 915-917
 Kilham, Lawrence, Cocked-tail display and evasive behavior of American Oystercatchers, 205
 King, Ben, reviews by, 427-428, 432
 King, James R., Commentary: Ornithological theory: whence and whither?, 415-418; see Ettlinger, Amelia O., and ———
 King, Warren B. (compiler), Red data book, vol. 2: Aves (2nd revised ed.) (rev.), 650
 Kingbird, Cassin's, 351-365; Grey, 625-626
 Kinglet, Ruby-crowned, 135-146
 Kirby, Virginia C., An adaptive modification in the ribs of woodpeckers and piculets (Picidae), 521-532
 Kite, Double-toothed, 94-97; White-tailed, 186-189, 795-804
 Kleptoparasitism, 443-444, 832-835
 Kochert, M. N. (project leader), Snake River birds of prey special report (rev.), 921
 Koenig, Walter D., see Williams, Pamela L., and ———
 Koplín, James R., Michael W. Collopy, Albert R. Bammann, and Howard Levenson, Energetics of two wintering raptors, 795-806
 Krebs, John R., Commentary: Ornithologists as unconscious theorists, 409-412
Lagonosticta rhodopareia, 123, 131
L. senegala, 123, 131
Lagopus lagopus, 601-607
L. leucurus, 601-607

- Lambert, Anne B., see Hussell, David J. T., and ———
- Landres, Peter B., and James A. MacMahon, Guilds and community organization analysis of an oak woodland avifauna in Sonora, Mexico, 351–365
- Lanius ludovicianus*, 819–820
- Lank, David B., review by, 641–642
- Lanyon, Wesley E., Revision of the *Myiarchus* flycatchers of South America (rev.), 906–908
- Larner, Yu Lee R., et al., Virginia's birdlife, an annotated checklist (rev.), 922
- Larus argentatus*, 21–26, 733–740
- L. dominicanus*, 670–672, 756
- L. glaucescens*, 276
- L. novaehollandiae*, 744, 747
- L. occidentalis*, 473–478, 898–899
- L. ridibundus*, 800
- Laterallus xenopterus*, 901–902
- Lawton, Marcy F., and Robert O. Lawton, Nest-site selection in the Brown Jay, 631–633
- Lawton, Robert O., see Lawton, Marcy F., and ———
- Leaf-tosser, Scaly-throated, 387, 390
- Leptasthenura aegithaloides*, 327
- L. xenothorax*, 169
- L. yanacensis*, 169–170
- Lesbia nuna*, 169
- Levenson, Howard, see Koplín, James R., et al.
- Levin, Simon A., Commentary: Mathematics in ecology and ornithology, 422–425
- Lewis, Robert A., see Farner, Donald S., et al.
- Liberia, 283–294
- Limnothlypis swainsonii*, 893
- Lonchura striata*, 160–166
- Longevity (see Mortality and survival)
- Longspur, Lapland, 509–520
- Lophortyx californicus*, 343, 346–347
- Louisiana, 498–500, 879–880
- Macaw, Red-shouldered, 368
- MacLean, S. F., see Tryon, P. R., and ———
- MacMahon, James A., see Landres, Peter B., and ———
- MacMillen, Richard E., and F. Lynn Carpenter, Evening roosting flights of the honey-creepers *Himatione sanguinea* and *Vestiaria coccinea* on Hawaii, 28–37
- Macronectes giganteus*, 670, 672
- Maine, 593
- Malaysia, 160–166, 283–294
- Mallard, 875–878; Philippine, 902
- Manakin, Black, 368; Red-capped, 387
- Mango, Antillian, 626
- Marsh Wren, Long-billed, 620–621
- Marshall, Joe T., Systematics of smaller Asian night birds based on voice (rev.), 644–647
- Martin, Dennis J., review by, 644–647
- Martin, L. D., J. D. Stewart, and K. N. Whetstone, The origin of birds: structure of the tarsus and teeth, 86–93
- Martin, Robert F., Analysis of hybridization between the hirundinid genera *Hirundo* and *Petrochelidon* in Texas, 148–159
- Martindale, Steven, see Caraco, Thomas, et al.
- Maryland, 593, 700–701
- Massachusetts, 13
- Massey, Barbara W., Commentary: American and European Tern calls, 639
- Mating systems of *Buteo galapagoensis*, 581–589; *Meleagris gallopavo*, 854–859
- Mayr, Ernst, review by, 208
- McDonnell, B., see Johnson, D. M., et al.
- McGillivray, W. Bruce, Nest grouping and productivity in the House Sparrow, 396–399
- McKinney, Frank, see Burns, Jeffrey T., et al.
- McNeil, Don, The birdhouse book. Building houses, feeders, and baths (rev.), 650
- Measurements (see Weights and ———)
- Meiglyptes tristis*, 526
- M. tukki*, 526
- Melanerpes aurifrons*, 526
- M. candidus*, 369
- M. carolinus*, 526, 528–529
- M. erythrocephalus*, 523, 526, 528–529
- M. formicivorus*, 339, 342, 345–347, 351–365, 526, 528–529
- M. lewis*, 526, 528–529
- M. rubricapillus*, 526
- M. striatus*, 526
- M. uropygialis*, 526
- Meleagris gallopavo*, 743–744, 747, 854–859
- Melierax gabar*, 222
- Melopsittacus undulatus*, 800
- Melospiza georgiana*, 893
- M. lincolni*, 262
- M. melodia*, 262, 819–820, 893
- Memorials (see also Obituaries), Wetmore, Alexander, 608–615
- Méndez, Eustorgio, Las Aves de Caza de Panamá (rev.), 649
- Merritt, Peter G., Group foraging by Mockingbirds in a Florida strangler fig, 869–872
- Metabolism of *Accipiter striatus*, 798; *Buteo jamaicensis*, 798; *Calypte costae*, 800; *Columba livia*, 800; *Elanus leucurus*, 799–800; *Falco cherrug*, 798; *F. columbarius*, 798; *F. mexicanus*, 798; *F. sparverius*, 798–800; *F. tinunculus*, 798; *Larus ridibundus*, 800; *Melopsittacus undulatus*, 800
- Metallura aeneocauda*, 169
- M. tyrianthina*, 169
- Metaltail, Scaled, 169
- Mexico, 351–365, 837–852
- Michigan, 13
- Micropternus brachyurus*, 523, 526

- Microrhopias quixensis*, 385–395
- Migration and orientation, effects of Coriolis force upon, 99–116; morning flight, 465–471
- Migration and orientation of *Ammodramus sava-narum*, 892–895; *Catharus fuscescens*, 547–557, 892–895; *C. guttatus*, 892–895; *C. minimus*, 548, 892–895; *C. ustulatus*, 547–557, 892–895; *Cistothorus palustris*, 892–895; *C. platensis*, 892–895; *Contopus virens*, 892–895; *Dendroica castanea*, 892–895; *D. cerulea*, 892–895; *D. coronata*, 547–557, 892–895; *D. discolor*, 892–895; *D. dominica*, 892–895; *D. fusca*, 892–895; *D. magnolia*, 892–895; *D. palmarum*, 892–895; *D. pensylvanica*, 892–895; *D. petechia*, 892–895; *D. pinus*, 892–895; *D. striata*, 547–557; *Dolichonyx oryzivorus*, 892–895; *Dumetella carolinensis*, 892–895; *Empidonax virescens*, 892–895; *Geothlypis trichas*, 547–557, 892–895; *Helmitheros vermivorus*, 892–895; *Hylocichla mustelina*, 892–895; *Icteria virens*, 892–895; *Limn-thylis swainsonii*, 892–895; *Melospiza georgiana*, 892–895; *M. melodia*, 892–895; *Mniotilta varia*, 892–895; *Oceanodroma leucorhoa*, 850; *Oporornis formosus*, 892–895; *Parula americana*, 892–895; *Passerculus sandwichensis*, 892–895; *Passerina cyanea*, 892–895; passerines, 465–471; *Pipilo erythrophthalmus*, 892–895; *Piranga olivacea*, 892–895; *P. rubra*, 892–895; *Protonotaria citrea*, 892–895; *Regulus calendula*, 892–895; *Seiurus aurocapillus*, 547–557, 892–895; *S. noveboracensis*, 892–895; *Setophaga ruticilla*, 547–557, 892–895; *Spizella passerina*, 892–895; *S. pusilla*, 717–718; *Toxostoma rufum*, 892–895; *Troglodytes aedon*, 892–895; *Vermivora celata*, 892–895; *V. chrysoptera*, 892–895; *V. peregrina*, 892–895; *Vireo flavifrons*, 892–895; *V. griseus*, 892–895; *V. olivaceus*, 547–557, 892–895; *Wilsonia citrina*, 892–895; *Zonotrichia albicollis*, 547–557, 892–895; *Z. leucophrys*, 547–557
- Mimus polyglottos*, 869–872
- Minnesota, 655–666
- Mississippi, 879–880
- Missouri, 480–489
- Mniotilta varia*, 387, 893
- Mock, Douglas W., and Karilyn C. Mock, Feeding behavior and ecology of the Goliath Heron, 433–448
- Mock, Karilyn C., see Mock, Douglas W., and ———
- Mockingbird, 869–872; Galapagos, 887–889
- Molothrus ater*, 253–266, 299–318, 677–682, 684–695
- Molts and plumages, amino acid composition, 742–751
- Molts and plumages of *Cygnus olor*, 454, 461; *Fringilla coelebs*, 50–61; *Lagopus lagopus*, 601–607; *Oceanodroma leucorhoa*, 837–852; *Stercorarius parasiticus*, 832–835; *L. leucurus*, 601–607; *Vermivora chrysoptera*, 4, 6–10, 12, 14; *V. pinus*, 4, 6–10, 12, 14; *Zonotrichia albicollis*, 245–251; *Z. leucophrys*, 63–72, 808
- Monjita, Gray, 368–369
- Montana, 622–624, 655–666
- Moore, Michael C., see Farner, Donald S., et al.
- Morphology and community structure, 321–337
- Morris, John G., see Baber, Daniel W., and ———
- Morrison, R. I. G., First specimen record of the Little Stint (*Calidris minuta*) for North America, 627–628
- Mortality and survival of *Agelaius phoeniceus*, 309, 311, 562–564; *Buteo galapagoensis*, 585–589; *Cygnus olor*, 453–458, 461; *Eudypetes chrysocome*, 754–758; *E. chrysolophus*, 754–758; *E. crestatus*, 754–758; *Molothrus ater*, 299–318, 680–682; *Oceanodroma furcata*, 275–278
- Moseley, Lynn J., Commentary: Response, 639
- Motmot, Broad-billed, 387
- Mountain-Tanager, Chestnut-bellied, 174
- Mountain-Toucan, Gray-breasted, 169
- Mountaineer, Bearded, 169
- Muir, John, My first summer in the Sierra (rev.), 920; Travels in Alaska (rev.), 920
- Müller-Schwarze, C., see Müller-Schwarze, D., and ———
- Müller-Schwarze, D., and C. Müller-Schwarze, Display rate and speed of nest relief in antarctic pygoscelid penguins, 825–831
- Mulleripicus pulverulentus*, 527
- Munia, Sharp-tailed, 160–166
- Mycteria americana*, 591–599
- Myers, Philip, and Rick L. Hansen, Rediscovery of the Rufous-faced Crake (*Laterallus xenopterus*), 901–902
- Myiarchus cinerascens*, 342, 351–365
- M. stolidus*, 625–626
- M. tuberculifer*, 327, 387
- Myiotheretes fumigatus*, 172
- M. fuscorufus*, 172
- Myrmotherula axillaris*, 385–395
- M. fulviventris*, 385–395
- Nachtigall, Werner (Ed.), Physiology of movements—biomechanics (rev.), 651
- Nagy, Kenneth A., see Weathers, Wesley W., and ———
- Nelson, Bryan, The Gannet (rev.), 644
- Nerini, Mary K., see Boersma, P. Dee, et al.
- Nesocittes micromegas*, 523, 526, 529
- Nesomimus parvulus*, 887–889
- Nest, insulative properties of, 816–824
- Nest and nest site of *Agelaius phoeniceus*, 819–821; *Cranioleuca albicapilla*, 170; *C. macr-patae*, 170; *Dendroica petechia*, 819–820; *Du-*

- metella carolinensis*, 819–820; *Florida caerulea*, 379; *Icterus galbula*, 819–820; *Lanius ludovicianus*, 819–820; *Melospiza melodia*, 819–820; *Oceanodroma furcata*, 269–270; *Passer domesticus*, 396–399; *Pelecanus occidentalis*, 491–500; *Penelope albipennis*, 889–891; *Pheucticus ludovicianus*, 819–820; *Philetarius socius*, 223–225; *Pithys albifrons*, 407–408; *Plocepasser mahali*, 223–224; *Pseudonigrita arnaudi*, 214, 216, 220; *Psilorhinus morio*, 631–633; *Selasphorus rufus*, 623; *Spheniscus magellanicus*, 191–193; *Spizella pusilla*, 819–820; *Turdus migratorius*, 819–820; *Zonotrichia capensis*, 401; *Z. leucophrys*, 819–821
- Nest parasitism, 118–132, 253–266
- Nestling of *Agelaius phoeniceus*, 561–564; *Calidris alpina*, 21–26; *Cephus columba*, 21–26; *Coturnix coturnix*, 777–779; *Empidonax traillii*, 542; *Eudypetes chrysocome*, 754–758; *E. chrysolophus*, 754–758; *E. crestatus*, 754–758; *Larus argentatus*, 21–26; *Oceanodroma furcata*, 275–278; *O. leucorhoa*, 566–575, 768–780; *Passerculus sandwichensis*, 721–731; *Phalacrocorax auritus*, 19–26; *Selasphorus rufus*, 622–624; *Sterna hirundo*, 777–779; *Sturnus vulgaris*, 21–26, 777–779
- Nethersole-Thompson, Desmond and Maimie, Greenshanks (rev.), 426
- New Brunswick, 566–575, 768–780
- New Jersey, 593, 733–740
- New York, 11–13, 465–471, 559–565, 593, 899
- Newfoundland, 567, 569–570
- Newman, A., see Hunt, G. L., Jr., et al.
- Newsom, W., see Johnson, D. M., et al.
- Newton, Ian, Population ecology of raptors (rev.), 428–429
- Nice, Margaret Morse, Research is a passion with me (rev.), 914–915
- North Carolina, 498, 500, 593
- North Dakota, 875–878
- Notiochelidon flavipes*, 173
- Nova Scotia, 721–731
- Núñez, Herman, see Schlatter, Roberto P., José L. Yáñez, Herman Núñez, and Fabian M. Jakšić; see Yáñez, José L., et al.
- Nuthatch, White-breasted, 342, 351–365
- Nuttallornis borealis*, 262, 342
- Nyctanassa violacea*, 591–599
- Nycticorax nycticorax*, 591–599
- Obituaries (see also Memorials), Armstrong, Edward Allworthy, 922–923
- Oceanodroma furcata*, 268–280
- O. leucorhoa*, 566–575, 768–780, 837–852
- O. l. cheimomnestes**, 848–849
- Oehser, Paul H., In Memoriam: Alexander Wetmore, 608–615
- Olson, John B., and S. Charles Kendeigh, Effect of season on the energetics, body composition, and cage activity of the Field Sparrow, 704–720
- Oncostoma olivaceum*, 387
- O'Neill, John P., see Parker, Theodore A., III, and ———; see Graham, Gary, L., et al.
- Ontario, 547–557, 627–628, 677–682, 684–695
- Oporornis formosus*, 893
- O. tolmiei*, 262
- Oregon, 361–362, 700–701, 837–852, 900
- Oreomanes fraseri*, 173
- Oreonympha nobilis*, 169
- Oreortyx pictus*, 343, 346
- Orians, Gordon H., Some adaptations of marsh-nesting blackbirds (rev.), 903–906
- Orientation (see Migration and ———)
- Oriole, Black-cowled, 625–626; Northern, 262, 342, 466, 819–820; Scott's, 351–365
- Ornithion brunneicapillum*, 387
- Osborn, Ronald G., see Custer, Thomas W., et al.
- Otus scops*, 764
- Ovenbird, 547–557
- Owen, E., see Johnson, D. M., et al.
- Owl, Barn, 895–896; Burrowing, 616–618; Great Horned, 895–896
- Oystercatcher, American, 205
- Packard, Gary C., see Sotherland, Paul R., et al.
- Pakenham, R. H. W., The birds of Zanzibar and Pemba. An annotated check-list (rev.), 909–910
- Paleontology (see Fossils)
- Palmer, Ralph S., Obituary of Edward Allworthy Armstrong, 922–923
- Panamá, 94–97, 283–294, 385–395
- Parabuteo unicinctus*, 196–197
- Paraguay, 901–902
- Parakeet, Peach-fronted, 368
- Parasites (see Diseases and ———)
- Parasitism (see Nest parasitism; see also Kleptoparasitism)
- Pardivallus maculatus*, 407
- Parker, Susan Allen, see Parker, Theodore A., III, and ———
- Parker, Theodore A., III, and John P. O'Neill, Notes on little known birds of the upper Urubamba Valley, southern Peru, 167–176; and Susan Allen Parker, Rediscovery of *Xenepestes singularis* (Furnariidae), 203–205
- Parsons, John, and Luis F. Baptista, Crown color and dominance in the White-crowned Sparrow, 807–815
- Parula americana*, 893
- Parus gambeli*, 262
- P. inornatus*, 342
- P. rufescens*, 262
- P. wollweberi*, 351–365
- Pasquier, Roger F., Watching birds (rev.), 921
- Passer domesticus*, 396–399, 717–718
- Passerculus sandwichensis*, 721–731, 893

- Passerella iliaca*, 262, 327
Passerina cyanea, 893
Patagona gigas, 169
Patterson, Cindy B., see Faaborg, John, et al.
Patton, John C., see Avise, John C., et al.
Payne, Robert B., Behavior and songs of hybrid parasitic finches, 118-134
Pelecanus occidentalis, 491-505
P. onocrotalus, 434, 444
P. rufescens, 434, 444
Pelican, Eastern Brown, 491-505; Pink-backed, 434, 444; White, 434, 444
Penelope albipennis, 889-891
Penguin, Adélie, 670-675, 825-830; Chinstrap, 670, 672, 825-830; Gentoo, 670, 675, 825-830; Macaroni, 754-758; Magellanic, 191-193; Rockhopper, 754-758
Pennsylvania, 194-196, 245-251, 576-580
Peru, 167-174, 203-204, 366-370, 883-887, 889-891
Pesticides (see Pollutants)
Peterson, Roger Tory, Penguins (rev.), 650-651
Petrochelidon fulva, 148-158
P. pyrrhonota, 148-158, 177-184
Pewee, Western Wood, 262-263, 342
Phainopepla, 327, 861-866
Phainopepla nitens, 327, 861-866
Phalacrocorax auritus, 19-26
P. carbo, 434, 444
Pheucticus ludovicianus, 466, 819-820
P. melanocephalus, 262-263, 341, 343, 346-348
Philetarius socius, 223-225
Philippines, 902
Philohela minor, 879-880
Phloeocastus melanoleucos, 526
Physiology, egg laying, 480-489, 539-540, 684-695; energy cost of activities, 20-24, 482-489, 533-545, 572-573, 692-695, 795-804, 861-866; energy cost of migration, 547-557; flight, 862-865; growth, 20-24, 566-575, 768-770; hormones, 601-607; incubation, 533-545; metabolism, 20, 80-83, 569-574, 706-718, 779-780, 800-804, 861-865; molt, 50-61, 63-72; nutrient reserves, 684-695, 714-717; plumage development, 601-607; reproduction, 480-489; thermal regulation, 20-24, 76-83, 537, 570, 572, 704-718, 779-780, 800-804, 865-866; water loss from eggs, 177-184
Physiology of *Aix sponsa*, 480-489; *Calidris alpina*, 21-24; *Catharus fuscescens*, 547-557; *C. ustulatus*, 547-557; *Cephus columba*, 21-24; *Dendroica coronata*, 547-557; *D. striata*, 547-557; *Elanus leucurus*, 795-804; *Empidonax traillii*, 533-545; *Falco sparverius*, 795-804; *Fringilla coelebs*, 50-61; *Geothlypis trichas*, 547-557; *Lagopus lagopus*, 601-607; *L. leucurus*, 601-607; *Larus argentatus*, 21-24; *Molothrus ater*, 684-695; *Oceanodroma leucorhoa*, 566-575, 768-780; *Passer domesticus*, 717-718; *Petrochelidon pyrrhonota*, 177-184; *Phainopepla nitens*, 861-866; *Phalacrocorax auritus*, 19-24; *Seiurus aurocapillus*, 547-557; *Setophaga ruticilla*, 547-557; *Spiza americana*, 717-718; *Spizella pusilla*, 704-718; *Sturnus vulgaris*, 21-24; *Vireo olivaceus*, 547-557; *Zonotrichia albicollis*, 547-557; *Z. leucophrys*, 63-72, 76-83, 547-557
Piaya cayana, 387
Picoides arcticus, 527-529
P. arizonae, 526
P. borealis, 526
P. canicapillus, 526, 528
P. leucotos, 527
P. lignarius, 526
P. macei, 526
P. major, 526
P. nuttallii, 526
P. pubescens, 526
P. scalaris, 526, 528
P. syriacus, 526
P. tridactylus, 523, 527-529
P. villosus, 521-522, 524-526, 528-529
Piculus chrysochloros, 526
P. rivolii, 526
Picumnus cirrhatous, 526, 528
Picus canus, 526
P. chlorolophus, 526
P. flavinucha, 526
P. mentalis, 526
P. viridis, 526
P. vittatus, 526
Pigeon, Band-tailed, 342, 347
Pintail, Northern, 902
Pipilo chlorurus, 262
P. erythrophthalmus, 343, 345, 347-348, 893
P. fuscus, 339, 343, 345, 347-348
Pipra mentalis, 387
Piranga ludoviciana, 262, 342, 347
P. olivacea, 466, 893
P. rubra, 893
Pitelka, Frank A. (Ed.), Shorebirds in marine environments (rev.), 641-642
Pithys albifrons, 407-408
Platypiza crassirostris, 239
Plegadis falcinellus, 591-599
Plocepasser mahali, 223-225
Plumages (see Molts and ——)
Polioptila melanura, 327
Pollutants in *Molothrus ater*, 308, 315
Polyandry (see Mating systems)
Polyboroides typus, 222
Polygamy (see Mating systems)
Polygyny (see Mating systems)
Polytmus guainumbi, 369
Porzana albicollis, 367
Predation by *Athene cunicularia*, 616-618; *Buteo*

- platypterus*, 631; *Buteogallus anthracinus*, 631; *Catharacta lonnbergi*, 672; *C. macror-micki*, 672, 830; *C. skua*, 756; *Chionis minor*, 756; *Elanus leucurus*, 186-189; *Larus dominicanus*, 756; *L. glaucescens*, 276; *Macro-nectes giganteus*, 672; *Melierax gabar*, 222; *Parabuteo unicinctus*, 196-197; *Polyboroides typus*, 222; *Telmatodytes palustris*, 620-621; *Tyto alba*, 760-766
- Predation on *Cygnus olor*, 453-454; *Eudypetes chrysocome*, 755-756; *E. chrysolophus*, 755-756; *E. crestatus*, 755-756; *Oceanodroma furcata*, 276; *Pseudonigrita arnaudi*, 222; *Psilorhinus morio*, 631-632; *Pteroptochos megapodius*, 197; *Pygoscelis adeliae*, 670-675, 830; *P. antarctica*, 672, 830; *P. papua*, 675, 830; *Spheniscus magellanicus*, 191-192; *Turdus falcklandii*, 197; *Xanthocephalus xanthocephalus*, 620-621
- Preston, Charles R., Differential perch site selection by color morphs of the Red-tailed Hawk (*Buteo jamaicensis*), 782-789
- Progne subis*, 327
- Protonotaria citrea*, 893
- Psaltriparus minimus*, 327, 342, 351-365
- Pseudonigrita arnaudi*, 213-225
- Psilorhinus morio*, 631-633
- Ptarmigan, White-tailed, 601-607; Willow, 601-607
- Pteroptochos megapodius*, 197, 327
- Puerto Rico, 499-500, 624-626
- Pulliam, H. Ronald, Commentary: On digesting a theory, 418-420; see Caraco, Thomas, et al.
- Pygoscelis adeliae*, 670-675, 825-830
- P. antarctica*, 670, 672, 825-830
- P. papua*, 670, 675, 825-830
- Pyrocephalus rubinus*, 351-365
- Pytilia melba*, 118, 122-126
- Quail, California, 343, 346-347; Japanese, 777-779; Mountain, 343, 346
- Rail, Spotted, 407
- Ralph, C. John, see Atkinson, Carter T., and _____
- Ramphastos toco*, 368
- Redstart, American, 387, 547-557
- Reese, Jan G., Demography of European Mute Swans in Chesapeake Bay, 449-464
- Regulus calendula*, 135-146, 893
- Rhode Island, 593
- Rhynchocyclus olivaceus*, 387
- Rhynchotus rufescens*, 366
- Richmond, Chandler S., Beyond the spring: Cordelia Stanwood of Birdsacre (rev.), 649
- Ricklefs, Robert E., Geographical variation in clutch size among passerine birds: Ashmole's hypothesis, 38-49; Commentary: Old specimens and new directions: the museum tradi-tion in contemporary ornithology, 206-207; and Joseph Travis, A morphological approach to the study of avian community organization, 312-338; Susan C. White, and John Cullen, Energetics of postnatal growth in Leach's Storm-Petrel, 566-575; Susan White, and John Cullen, Postnatal development of Leach's Storm-Petrel, 768-781
- Ripley, Sidney Dillon, II, A bundle of feathers (rev.), 920
- Roberts, Thomas H., Sexual development during winter in male American Woodcock, 879-881
- Robin, American, 135-146, 194-196, 262, 342, 576-580, 819-820
- Rodgers, James A., Little Blue Heron breeding behavior, 371-384
- Rohwer, Sievert, see Rutberg, Allen T., and _____
- Ross, Howard A., Growth of nestling Ipswich Sparrows in relation to season, habitat, brood size, and parental age, 721-731
- Rothstein, Stephen I., Jared Verner, and Ernest Stevens, Range expansion and diurnal changes in dispersion of the Brown-headed Cowbird in the Sierra Nevada, 253-267
- Rutberg, Allen T., and Sievert Rohwer, Breeding strategies of male Yellow-headed Blackbirds: results of a removal experiment, 619-622
- Samuels, P., see Johnson, D. M., et al.
- Sandpiper, Rufous-necked, 627; Semipalmated, 627
- Sasia abnormis*, 523, 526, 528-529
- Saskatchewan, 601-607, 701
- Satrapa icterophrys*, 369
- Saurothera vielloti*, 625-626
- Schizoeaca helleri*, 170-171
- Schlatter, Roberto P., Benigno Toro, José L. Yáñez, and Fabian M. Jaksic, Prey of the White-tailed Kite in central Chile and its relation to the hunting habitat, 186-190; see Jaksic, Fabian M., et al.; José L. Yáñez, Herman Núñez, and Fabian M. Jaksic, The diet of the Burrowing Owl in central Chile and its relation to prey size, 616-619; see Yáñez, José L., et al.; José L. Yáñez, and Fabian M. Jaksic, Food-niche relationships between Chilean Eagles and Red-backed Buzzards in central Chile, 897-898
- Schreiber, Ralph W., Nesting chronology of the Eastern Brown Pelican, 491-508; reviews by 644, 921
- Schulenberg, Thomas S., see Graham, Gary L., et al.
- Sclerurus guatemalensis*, 387, 390
- Scott, D. M., and C. Davison Ankney, Fecundity of the Brown-headed Cowbird in southern Ontario, 677-683; see Ankney, C. Davison, and _____

- Seedeater, Plumbeous, 369
Seiurus aurocapillus, 547-557, 893
S. noveboracensis, 893
Selasphorus rufus, 622-624
 Sellers, Charles Colman, Mr. Peale's museum:
 Charles William Peale and the first popular
 museum of natural science and art (rev.), 651-
 652
Setophaga ruticilla, 387, 547-557, 893
 Sheathbill, American, 670; Lesser, 756
 Shetland, 832-835
 Short, Lester L., review by, 921; and J. F. M.
 Horne, review by, 909-910
 Shrike, Loggerhead, 819-820
Sialia currucoides, 262
S. mexicana, 342
S. sialis, 135-146, 351-365
 Siberia, 700
 Sibley, Fred C., see Barrowclough, George F., and

- Sitta carolinensis*, 327, 342, 351-365
S. pygmaea, 327
 Skowron, Carol, and Michael Kern, The insulation
 in nests of selected North American songbirds,
 816-824
 Skua, Brown, 669-675; South Polar, 670-675, 830;
 Subantarctic, 756
 Skutch, Alexander F., The imperative call. A natu-
 ralist's quest in temperate and tropical Amer-
 ica (rev.), 647-648
 Sladen, William J. L., see Evans, Mary E., and

- Social Weaver, Grey-capped, 213-225
 Song (see Vocalizations)
 Sonograms of hybrids of *Vidua purpurascens* × *V.*
 paradisaea, 124-126; of *Oceanodroma leucor-*
 hoa, 846-847; *Pytilia melba*, 124; *Vidua par-*
 adisaea, 124-126; *V. purpurascens*, 126
- Sorella eminibey*, 222
 Sotherland, Paul R., Gary C. Packard, Theodore
 L. Taigen, and Thomas J. Boardman, An al-
 titudinal cline in conductance of Cliff Swallow
 (*Petrochelidon pyrrhonota*) eggs to water va-
 por, 177-185
 South Africa, 433-446, 754-758
 South Carolina, 198-201, 498, 500, 593
 Southwick, Edward E., Seasonal thermoregulatory
 adjustments in White-crowned Sparrows,
 76-85
 Spain, 760-766
 Sparrow, Chestnut, 222; Chipping, 262, 342, 345;
 Field, 704-718, 819-820; Fox, 262; Grass-
 land, 369; House, 396-399, 717-718; Ipswich,
 721-731; Lincoln's, 262; Rufous-collared,
 400-403; Savannah, 721-731; Song, 262, 819-
 820; White-crowned, 63-72, 76-83, 547-557,
 807-813, 819-821; White-throated, 245-251,
 547-557
Spheniscus magellanicus, 191-193
- Sphyrapicus thyroideus*, 526
S. varius, 526, 529
 Spinetail, Creamy-crested, 170; Marcapata, 170
Spinus psaltria, 343, 345, 348
Spiza americana, 717-718
Spizella passerina, 262, 342, 345, 893
S. pusilla, 704-718, 819-820
 Spoonbill, Roseate, 591-599
Sporophila plumbea, 369
 Starling, 21-26, 777-779, 870
Stercorarius parasiticus, 832-835
 Sterling, Keir B., reviews by, 643-644, 649, 651-
 653, 914-915, 917
Sterna hirundo, 743-744, 747, 777-779, 899
S. paradisaea, 833
 Stevens, Ernest, see Rothstein, Stephen I., et al.
 Stewart, J. D., see Martin, L. D., et al.
 Stewart, J. L., see Johnson, D. M., et al.
 Stilt, Black-necked, 633-636
 Stint, Little, 627-628
 Stork, Wood, 591-599
 Storm-Petrel, Fork-tailed, 268-280; Leach's, 566-
 575, 768-780, 837-852
 Stout, William F., see Custer, Thomas W., et al.
Strix aluco, 764
Sturnella neglecta, 327
Sturnus vulgaris, 21-26, 777-779, 870
 Sunbeam, White-tufted, 168-169
 Surinam, 407-408
 Sutton, George Miksch, To a young bird artist:
 letters from Louis Agassiz Fuertes to George
 Miksch Sutton (rev.), 653
 Swallow, Barn, 148-158; Cave, 148-158; Cliff,
 148-158, 177-184; Pale-footed, 173; Violet-
 green, 342
 Swan, Bewick's, 697-702; Mute, 449-462; Whis-
 tling, 697-702
- Tachycineta leucopyga*, 327
T. thalassina, 327, 342
Tachyphonus luctuosus, 387
Tadorna, 747
 Taigen, Theodore L., see Sotherland, Paul R., et
 al.
 Tanager, Golden-collared, 174; Gray-headed, 387;
 Scarlet, 466; Slaty, 174; Western, 262, 342,
 346; White-shouldered, 387
 Tatum, J. B., The effect of the Coriolis force on
 the flight of a bird, 99-117
 Taxonomy of *Catharus fuscescens*, 144-146; *C.*
 guttatus, 144-146; *C. minimus*, 144-146; *C.*
 ustulatus, 144-146; *Cygnus bewickii*, 697; *C.*
 columbianus, 697; *Dendroica coronata*, 666;
 Dubusia (= *Delothraupis*) *castaneoventris*,
 174; *Dumetella carolinensis*, 144-146; *Gral-*
 laria erythroleuca, 171; *Hirundo rustica*, 157-
 158; *Hylocichla mustelina*, 144-146; *Ocea-*
 nodroma leucorhoa, 837-852; *Petrochelidon*
 fulva, 157-158; *P. pyrrhonota*, 157-158; *Re-*

- gulus calendula*, 144–146; *Schizoeaca helleri*, 170–171; *Sialia sialis*, 144–146; *Telmatodytes palustris*, 620–621; *Turdus migratorius*, 144–146; *Xenerpestes minlosi*, 204; *X. singularis*, 204
- Temple, S. A. (Ed.), *Endangered birds: Management techniques for preserving threatened species* (rev.), 209
- Tennessee, 879–880
- Terenotriccus erythrurus*, 387, 390, 393
- Tern, Arctic, 833; Common, 777–779, 899
- Territory in *Aglæactis castelnaudii*, 168–169; *Ardea herodias*, 900; *Aythya valisineria*, 198–201; *Buteo galapagoensis*, 583, 585–589; *Calcarius lapponicus*, 509–520; *Catharacta lonnbergi*, 669–675; *C. maccormicki*, 674–675; hybrids of *Vidua purpurascens* × *V. paradisaea*, 121–122; *Larus argentatus*, 733–740; *Mimus polyglottos*, 870–871; *Philetarius socius*, 223; *Plocepasser mahali*, 223; *Pseudonigrita arnaudi*, 216–220, 223; *Spheniscus magellanicus*, 191–193; *Vestiaria coccinea*, 35; *Vidua chalybeata*, 127, 129; *V. macroura*, 127; *V. paradisaea*, 127, 129; *V. purpurascens*, 127, 129; *V. regia*, 127; *Xanthocephalus xanthocephalus*, 621–622
- Texas, 148–158, 299–318, 498–500, 633–636, 790–793
- Thamnophilus punctatus*, 387, 389–394
- Thistle-tail, Puna, 170–171
- Thompson, Charles F., see Cronmiller, James R., and ———
- Thrasher, California, 342, 347
- Thripas namaquus*, 526
- Thrush, Gray-cheeked, 135–146, 548; Hermit, 135–146; Swainson's, 135–146, 547–557; Wood, 135–146
- Thryomanes bewickii*, 342, 351–365
- Thryothorus euophrys*, 173
- Tinamou, Red-winged, 366
- Tit-Spintail, Tawny, 169–170; White-browed, 169
- Tit-Tyrant, Ash-breasted, 172; Unstreaked, 172–173
- Titmouse, Bridled, 351–365; Plain, 342
- Todus mexicanus*, 625–626
- Tody, Puerto Rican, 625–626
- Tolmomyias assimilis*, 387
- Toro, Benigno, see Schlatter, Roberto P., et al.
- Toucan, Toco, 368
- Towhee, Brown, 339, 343, 345–348; Green-tailed, 262; Rufous-sided, 343, 345, 347–348
- Toxostoma lecontei*, 327
- T. redivivum*, 327, 342, 347
- T. rufum*, 893
- Travis, Joseph, see Ricklefs, Robert E., and ———
- Trichopicus cactorum*, 526
- Trivelpiece, Wayne, Ronald G. Butler, and Nicholas J. Volkman, Feeding territories of Brown Skuas (*Catharacta lonnbergi*), 669–676
- Troglodytes aedon*, 262, 327, 342, 893
- Trogon, Black-throated, 387; Slaty-tailed, 387
- Trogon massena*, 387
- T. rufus*, 387
- Tryon, P. R., and S. F. MacLean, Use of space by Lapland Longspurs breeding in arctic Alaska, 509–520
- Tuck, Gerald, and Hermann Heinzel, A field guide to the seabirds of Britain and the world (rev.), 908–909
- Turdus falcklandii*, 193
- T. migratorius*, 135–146, 194–196, 262, 342, 576–580, 819–820
- Turkey, Rio Grande, 854–859
- Tyrannulet, Brown-capped, 387
- Tyrannus dominicensis*, 625–626
- T. vociferans*, 351–365
- Tyrant, Spectacled, 172; Yellow-browed, 369
- Tyto alba*, 760–766, 895–896
- Udvardy, M. D. F., reviews by, 429–430, 432
- Uria aalge*, 833
- Uromyias agraphia*, 172–173
- Vanden Berge, James C., review by, 648–649
- Veery, 135–146, 547–557
- Veniliornis passerinus*, 526
- Vermivora celata*, 342, 893
- V. chrysoptera*, 1–16, 893
- V. luciae*, 351–365
- V. peregrina*, 893
- V. pinus*, 1–16
- V. ruficapilla*, 262
- Verner, Jared, see Rothstein, Stephen I., et al.
- Verreauxia africana*, 523
- Vestiaria coccinea*, 28–36
- Vickery, Peter B., Annotated checklist of Maine birds (rev.), 922
- Vidua chalybeata*, 121, 127–129, 131
- V. funerea*, 129
- V. macroura*, 127–129
- V. obtusa*, 120–121
- V. paradisaea*, 118–132
- V. purpurascens*, 118–132
- V. regia*, 127–129
- Vireo, Black-whiskered, 625–626; Hutton's, 342; Philadelphia, 387; Puerto Rican, 625–626; Red-eyed, 547–557; Solitary, 262, 266, 342; Warbling, 259, 262, 266, 342
- Vireo altiloquus*, 625–626
- V. flavifrons*, 893
- V. gilvus*, 259, 262, 266, 342
- V. griseus*, 893
- V. huttoni*, 342
- V. latimeri*, 625–626
- V. olivaceus*, 547–557, 893
- V. philadelphicus*, 387

- V. solitarius*, 262, 266, 342
Virginia, 593
Vocalizations of *Andigena hypoglauca*, 169; *Asthenes ottonis*, 171; *A. virgata*, 171; *Buteo leucorrhous*, 168; *Conirostrum ferrugineiventre*, 173; *Coryphaspiza melanotis*, 369; *Cranioleuca albicapilla*, 170; *C. marcapatae*, 170; *Dendragapus obscurus*, 404–406; *Florida caerulea*, 372–376; *Grallaria erythroleuca*, 171; hybrids of *Vidua purpurascens* × *V. paradisaea*, 122–127, 131–132; *Leptasthenura xenothorax*, 169; *L. yanacensis*, 169–170; *Microrhopias quixensis*, 389; *Myiotheretes fuscorufus*, 172; *Myrmotherula fulviventris*, 389; *Notiochelidon flavipes*, 173; *Oceanodroma leucorhoa*, 845–847; *Oreomanes fraseri*, 173; *Pygoscelis adeliae*, 825–830; *P. antarctica*, 825–830; *P. papua*, 825–830; *Pytilia melba*, 124–126; *Rhynchotus rufescens*, 366; *Schizoeaca helleri*, 170–171; *Vidua chalybeata*, 123, 131; *V. paradisaea*, 123–127, 131–132; *V. purpurascens*, 123, 131–132; *Xenodacnis parina*, 174; *Zonotrichia capensis*, 401
Volkman, Nicholas J., see Trivelpiece, Wayne, et al.
Friends, M. M., see Harman, Ian, and ———
de Vries, Tjitte, see Faaborg, John, et al.
Vulture, Turkey, 342
- Wallace, George J., My world of birds: memoirs of an ornithologist (rev.), 648–649
Walters, Michael, The complete birds of the world (rev.), 918–919
Warbler, Adelaide's, 625–626; Bay-breasted, 387, 390, 393; Black-and-White, 387, 393; Black-throated Gray, 262, 342, 345–346; Blackpoll, 547–557; Blue-winged, 1–16; Chestnut-sided, 387, 389, 393; Golden-winged, 1–16; Hermit, 342; Kentucky, 387, 390; Lucy's, 351–365; MacGillivray's, 262; Nashville, 262; Orange-crowned, 342; Wilson's, 342, 345; Yellow, 262, 266, 819–820; Yellow-rumped, 547–557, 655–666, 881–883
Washington, 533–545, 619–622, 655–666, 837–852, 881–883
Weather, influence on (see Environment, influence on)
Weathers, Wesley W., and Kenneth A. Nagy, Simultaneous doubly labeled water ($^2\text{HH}^{18}\text{O}$) and time budget estimates of daily energy expenditure in *Phainopepla nitens*, 861–867
Weaver, Sociable, 223–225
Weights and measurements of *Accipiter collaris*, 168; *A. cooperii*, 342; *Agelaius phoeniceus*, 309, 311, 562–563; *Aix sponsa*, 481–485; *Aphelocoma coerulescens*, 343; *Asio flammeus*, 764; *Athene cunicularia*, 616, 764; *A. noctua*, 764; *Atlapetes leucopterus dresseri*, 884; *A. l. leucopterus*, 884; **A. I. paynteri**, 884–885; *Bubo bubo*, 764; *B. virginianus*, 764; *Buteo jamaicensis*, 342; *Calidris minuta*, 628; *Calypte anna*, 342; *Carpodacus purpureus*, 342; *Cathartes aura*, 342; *Catharus fuscescens*, 548, 552, 554; *C. minimus*, 548; *C. ustulatus*, 548, 552, 554; *Chamaea fasciata*, 342; *Coccyzus minor*, 625; *Colaptes auratus*, 342; *C. pitiis*, 523; *Columba fasciata*, 342; *Contopus sordidulus*, 342; *Cyanocitta stelleri*, 343; *Cygnus bewickii*, 699; *C. columbianus*, 699; *Dendrocopos nuttallii*, 342; *D. pubescens*, 342; *D. villosus*, 342; *Dendroica adelaidae*, 625; *D. coronata*, 548, 552, 554, 882; *D. nigrescens*, 342; *D. occidentalis*, 342; *D. striata*, 548, 552, 554; *Elanus leucurus*, 798, 800; *Empidonax difficilis*, 342; *E. traillii*, 534; *Falco sparverius*, 629–630, 798, 800; *Geothlypis trichas*, 548, 552, 554; *Glaucidium brasilianum*, 764; *Hirundo rustica*, 155; hybrids of *Hirundo rustica* × *Petrochelidon* spp., 155; *Icterus dominicensis*, 625; *I. galbula*, 342; *Junco hyemalis*, 343; *Jynx ruficollis*, 523; *J. torquilla*, 523; *Larus occidentalis*, 474; *Laterallus xenopterus*, 902; *Lophortyx californicus*, 343; *Melanerpes erythrocephalus*, 523; *M. formicivorus*, 342; *Micropternus brachyurus*, 523; *Molothrus ater*, 309–313, 686–690; *Myiarchus cinerascens*, 342; *M. stolidus*, 625; *Nesocittes micromegas*, 523; *Nuttallornis borealis*, 342; *Oceanodroma furcata*, 269–270, 275; *O. leucorhoa*, 568, 769, 842–843; *Oreortyx pictus*, 343; *Otus scops*, 764; *Parus inornatus*, 342; *Passerculus sandwichensis*, 723; *Penelope albipennis*, 891; *Petrochelidon fulva*, 155; *P. pyrrhonota*, 180; *Pheucticus melanocephalus*, 343; *Philetarius socius*, 223; *Philohela minor*, 880; *Picoides tridactylus*, 523; *Pipilo erythrophthalmus*, 343; *P. fuscus*, 343; *Piranga ludoviciana*, 342; *Plocepasser mahali*, 223; *Psaltiriparus minimus*, 342; *Pseudonigrita arnaudi*, 223; *Sasia abnormis*, 523; *Sauvothera vielloti*, 625; *Seiurus aurocapillus*, 548, 552, 554; *Selasphorus rufus*, 623–624; *Setophaga ruticilla*, 548, 552, 554; *Sialia mexicana*, 342; *Sitta carolinensis*, 342; *Spinus psaltria*, 343; *Spizella passerina*, 342; *S. pusilla*, 715; *Strix aluco*, 764; *Tachycineta thalassina*, 342; *Thryomanes bewickii*, 342; *Todus mexicanus*, 625; *Toxostoma redivivum*, 342; *Troglodytes aedon*, 342; *Turdus migratorius*, 342; *Tyrannus dominicensis*, 625; *Tyto alba*, 764; *Vermivora celata*, 342; *Verreauxia africana*, 523; *Vireo altiloquus*, 625; *V. gilvus*, 342; *V. huttoni*, 342; *V. latimeri*, 625; *V. olivaceus*, 548, 552, 554; *V. solitarius*, 342; *Wilsonia pusilla*, 342; *Xenerpestes singularis*, 203; *Zenaida macroura*, 342;

- Zonotrichia albicollis*, 548, 553–554; *Z. leucophrys*, 548, 552, 554
- Wetmore, Alexander, Memorial of, 608–615
- Wheelwright, Eugenia Stevens, see Boersma, P. Dee, et al.
- Wheelwright, Nathaniel T., see Boersma, P. Dee, et al.
- Whetstone, K. N., see Martin, L. D., et al.
- White, Susan C., see Ricklefs, Robert E., et al.
- White, Terry, Birds of Trinidad and Tobago (rev.), 919
- Whydah, Paradise, 118–132
- Wiens, John A., reviews by, 210, 430–432, 650
- Williams, Anthony J., Offspring reduction in Macaroni and Rockhopper penguins, 754–759
- Williams, Morris D., First description of the eggs of the White-winged Guan, *Penelope albipennis*, with notes on its nest, 889–892
- Williams, Pamela L., and Walter D. Koenig, Water dependence of birds in a temperate oak woodland, 339–350
- Wilsonia citrina*, 893
- W. pusilla*, 259, 342, 345
- Wingfield, J. C., see Hunt, J. L., Jr., et al.
- Wolf, Larry L., Species relationships in the avian genus *Aimophila* (rev.), 640–641; review by, 209–210
- Woodcock, American 879–880
- Woodcreeper, Black-striped, 387, 389–393; Buff-throated, 387; Wedge-billed, 387, 389–391
- Woodpecker, Acorn, 339, 342, 345–347, 351–365; Arctic Three-toed, 527–529; Black-backed Three-toed, 523, 527–529; Crimson-crested, 387; Downy, 342; Hairy, 342, 521–522, 524–526, 528–529; Lewis', 526, 528–529; Nuttall's, 342; Red-bellied, 526, 528–529; Red-headed, 523, 526, 528–529; White, 368
- Wren, Bewick's, 342, 351–365; Cañon, 262; House, 262, 342; Plain-tailed, 173
- Wrentit, 342, 345–347
- Wryneck, 521–526, 528
- Wyoming, 177–184, 325, 868–869
- Xanthocephalus xanthocephalus*, 619–622
- Xenerpestes minlosi*, 204
- X. singularis*, 203–204
- Xenodacnis parina*, 174
- Xenopipo atronitens*, 368
- Xenops, Plain, 387, 389–393
- Xenops minutus*, 387, 389–393
- Xiphorhynchus guttatus*, 387
- X. lachrymosus*, 387, 389–393
- Xolmis cinerea*, 368–369
- Yáñez, José L., see Schlatter, Roberto P., Benigno Toro, José L. Yáñez, and Fabian M. Jaksic; see Jaksic, Fabian M., et al.; see Schlatter, Roberto P., José L. Yáñez, Herman Núñez, and Fabian M. Jaksic; Herman Núñez, Roberto P. Schlatter, and Fabian M. Jaksic, Diet and weight of American Kestrels in central Chile, 629–631; see Jaksic, Fabian M., and ———; see Schlatter, Roberto P., José L. Yáñez, and Fabian M. Jaksic
- Yellowthroat, Common, 547–557
- Zambia, 118–132
- Zenaida macroura*, 342, 347
- Zonotrichia albicollis*, 245–251, 547–557, 893
- Z. capensis*, 400–403, 659
- Z. leucophrys*, 63–72, 76–83, 547–557, 659, 662, 807–813, 819–821