

## Index to Volume 115



The Auk 115(4):1098–1109, 1998

COMPILED BY ALISON E. H. PERKINS

This index is confined primarily to new information. Previously published information referred to in this volume has not been indexed unless extensive comparisons or reinterpretations are involved. New specific names are printed in **boldface** type.

- Adoption in *Recurvirostra americana*, 490–494  
Adriaensen, Frank, see Matthysen, Erik, and —  
*Agapornis cana*, 455–464  
A. *fischeri*, 455–464  
A. *lilianae*, 455–464  
A. *nigrigenis*, 455–464  
A. *personata*, 455–464  
A. *pullaria*, 455–464  
A. *roseicollis*, 455–464  
A. *taranta*, 455–464  
*Agelaius phoeniceus*, 843–850  
Ainley, David G., see Spear, Larry B., and —  
Alisauskas, Ray T., Winter range expansion and relationships between landscape and morphometrics of midcontinent Lesser Snow Geese, 851–862  
Alonso, José Alvarez, see Whitney, Bret M., and —  
American Ornithologists' Union, William Brewster Memorial Award, 1997: John C. Avise, 256–257; Elliott Coues Award, 1997: Chandler S. Robbins, 257–259; Notice from the Committee on Classification and Nomenclature, 280; Proposed Amendments to the AOU Bylaws, 279  
*Anas platyrhynchos*, 311–318, 988–997  
A. *strepera*, 670–683  
Anders, Angela D., John Faaborg, and Frank R. Thompson III, Postfledging dispersal, habitat use, and home-range size of juvenile Wood Thrushes, 349–358  
Anderson, Stanley H., see Smith, Roger N., et al.  
Anderson, Stanley H., and John R. Squires, The Prairie Falcon (rev.), 268–269  
Ankney, C. Davison, see Leafloor, James O., et al.  
Antbirds, taxonomy 559–576, 577–590, 1072–1073  
Antipitta, Masked, 1072–1073  
Antwren, Ancient, 559–576  
*Aptenodytes patagonicus*, 767–771  
Ardeidae, 127–141  
Artificial nests, 16–25, 486–489  
Assemblages of birds in Argentine forests, 425–435  
Assortative mating in *Calidris mauri*, 786–791; *C. pu-*  
*silla*, 786–791  
Attié, Carole, see Bretagnolle, Vincent, et al.  
Aubry, Yves, see Gauthier, Jean, and —  
Avocet, American, 490–494  
Bachman, Gwen C., see Chappell, Mark A., and —  
*Baeolophus bicolor*, 221–223  
Baicich, Paul J., and Colin J. O. Harrison, A guide to the nests, eggs, and nestlings of North American birds (rev.), 818  
Baker, Myron C., and Michael S. Johnson, Allozymic and morphometric comparisons among Indigo and Lazuli buntings and their hybrids, 537–542  
Bananaquit, 780–786  
Baranyuk, Vasily V., see Kuznetsov, Sergei B., et al.  
Barbet, Toucan, 4–15  
Behavior of *Agapornis* parrots, 455–464; *Calidris maritima*, 602–612; *Calocitta formosa*, 327–339; *Carduelis tristis*, 230–234; *Catoptrophorus semipalmatus*, 514–518; *Charadrius semipalmatus*, 166–174; *Gallinula mortierii*, 528–532; *Larus dominicanus*, 1068–1071; *Molothrus ater*, 376–385; *Nectarinia chalybea*, 156–165; *Piranga bidentata*, 621–634; *P. erythrocephala*, 621–634; *P. flava*, 621–634; *P. leucoptera*, 621–634; *P. ludoviciana*, 621–634; *P. olivacea*, 621–634; *P. roseogularis*, 621–634; *P. rubiceps*, 621–634; *P. rubra*, 621–634; *Promerops cafer*, 156–165; *Pygoscelis adeliae*, 526–528; *Recurvirostra americana*, 490–494; *Sayornis phoebe*, 497–502; *Semnornis ramphastinus*, 4–15; *Sterna eurygnatha*, 1068–1071; *S. maxima*, 1068–1071; *Troglodytes aedon*, 863–870; *Uria lomvia*, 57–66; *Vermivora chrysoptera*, 209–214; *V. pinus*, 209–214; *Zenaida macroura*, 1057–1062  
Bellocq, M. Isabel, Prey selection by breeding and nonbreeding Barn Owls in Argentina, 224–229  
Benvenuti, Silvano, Francesco Bonadonna, Luigi Dall'Antonia, and Guðmundur A. Guðmundsson, Foraging flights of breeding Thick-billed Murres (*Uria lomvia*) as revealed by bird-borne direction recorders, 57–66  
Birmingham, Eldredge, see Lovette, Irby J., et al.  
Biewener, Andrew A., see Warrick, Douglas R., et al.  
Bishop, K. David, see Coates, Brian J., and —  
Black, Jeffrey M. (Ed.), Partnerships in birds: The study of monogamy (rev.), 261–263  
Blackbird, Red-winged, 843–850  
Blackbird infestations of *Buteo jamaicensis* nestlings, 368–375  
Blackwell, Rachelle C., see Zink, Robert M., and —  
Blanken, Michèle Sullivan, and Erica Nol, Factors af-

- fecting parental behavior in Semipalmated Plovers, 166–174
- Blom, Eirik A. T., see Robbins, Chandler S., and —
- Boag, Peter T., see Conrad, Kelvin F., et al.
- Bock, Walter J., review by, 808–809
- Body composition of *Limosa laponica*, 196–203
- Body condition in *Calidris pusilla*, 904–915; *Parus major*, 727–738; *Phylloscopus trochilus*, 759–763
- Body fat measurement techniques in *Columbia livia*, 175–187
- Body size in *Branta bernicla*, 613–620; *B. canadensis*, 26–33
- Boersma, P. Dee, and Julia K. Parrish, Flexible growth rates in Fork-tailed Storm-Petrels: A response to environmental variability, 67–75
- Boersma, P. Dee, see Hood, Laura C., et al.
- Boersma, P. Dee, see Stokes, David L., and —
- Bollinger, Eric K., see Peer, Brian D., and —
- Bombycilla cedrorum*, 319–326, 359–367
- Bonadonna, Francesco, see Benvenuti, Silvano, et al.
- Brant, Black, 436–446, 613–620
- Branta bernicla*, 436–446, 613–620
- B. canadensis*, 26–33
- Breeding biology of *Aptenodytes patagonicus*, 767–771; *Branta bernicla*, 613–620; *Calocitta formosa*, 327–339; *Caracara plancus*, 979–987; *Carduelis tristis*, 230–234; *Cercotrichas galactotes*, 235–239; *Dendroica occidentalis*, 739–745; *D. townsendi*, 739–745; *Ficedula albicollis*, 1063–1067; *Hylocichla mustelina*, 879–889; *Oceanodroma furcata*, 67–75; *Parus major*, 1034–1051; *Passerulus sandwichensis beldingi*, 508–513; *Picoides borealis*, 502–507; *Pseudoleistes virescens*, 871–878; *Rhea americana*, 340–348; *Seiurus aurocapillus*, 96–104; *Semnornis rufphastinus*, 4–15; *Sitta europaea*, 955–963; *Spheniscus magellanicus*, 34–49
- Breeding behavior of *Aptenodytes patagonicus*, 767–771; *Calidris maritima*, 602–612; *Eudyptes chrysocome*, 478–482
- Bretagnolle, Vincent, Carole Attié, and Eric Pasquet, Cytochrome-*b* evidence for validity and phylogenetic relationships of *Pseudobulweria* and *Bulweria* (Procellariidae), 188–195
- Bretagnolle, Vincent, see Rabouam, Corinne, et al.
- Brewster Memorial Award, 1997: John C. Avise, 256–257
- Briskie, James V., Avian genitalia, 826–828
- Brodin, Anders, Olof Olsson, and Colin W. Clark, Modeling the breeding cycle of long-lived birds: Why do King Penguins try to breed late?, 767–771
- Brood reduction in *Picoides borealis*, 502–507
- Brush, Alan H., review by, 806–808
- Bubo virginianus*, 694–705
- Buchan, Jason C., see Goldizen, Anne W., et al.
- Bulbul, Black-eyed, 404–411; Cape, 404–411; Red-eyed, 404–411
- Bulweria bulwerii*, 188–195
- Bunting, Indigo, 537–542; Lazuli, 537–542
- Burke, Dawn M., and Erica Nol, Influence of food abundance, nest-site habitat, and forest fragmentation on breeding Ovenbirds, 96–104
- Burns, Kevin J., Molecular phylogenetics of the genus *Piranga*: Implications for biogeography and the evolution of morphology and behavior, 621–634
- Bush-Robin, Rufous, 235–239
- Buteo jamaicensis*, 368–375
- Butler, Robert W., The Great Blue Heron: A natural history and ecology of a seashore sentinel (rev.), 815–816
- Bylaw changes, 279
- Cain, Steven L., see Smith, Roger N., et al.
- Calidris maritima*, 602–612
- C. mauri*, 786–791
- C. pusilla*, 786–791, 904–915
- Callipepla californica*, 394–403
- C. douglasii*, 394–403
- C. gambelii*, 394–403
- C. squamata*, 394–403
- Calocitta formosa*, 327–339
- Calonectris diomedea*, 483–486
- Campbell, R. Wayne, Neil K. Dawe, Ian McTaggart-Cowan, John M. Cooper, Gary W. Kaiser, Michael C. E. McNall, and G. E. John Smith, The birds of British Columbia. Volume 3. Passerines: Flycatchers through vireos (rev.), 548–550
- Caracara, Crested, 979–987
- Caracara plancus*, 979–987
- Carduelis tristis*, 230–234
- Carrascal, Luis M., Juan Carlos Senar, Ingrid Mozeitch, Fransec Uribe, and Jordi Domenech, Interactions among environmental stress, body condition, nutritional status, and dominance in Great Tits, 727–738
- Catharus fuscescens*, 591–601
- C. minimus*, 319–326
- C. guttatus*, 319–326
- C. ustulatus*, 591–601
- Catoptrophorus semipalmatus*, 514–518
- Caziani, Sandra M., see Lopez de Casenave, Javier, et al.
- Cecil, Robert, see Jackson, Laura Spess, et al.
- Cercotrichas galactotes*, 235–239
- Chappell, Mark A., and Gwen C. Bachman, Exercise capacity of House Wren nestlings: Begging chicks are not working as hard as they can, 863–870
- Charadrius semipalmatus*, 166–174
- Chatterjee, Sankar, The rise of birds: 225 million years of evolution (rev.), 808–809
- Chen caerulescens*, 642–652, 851–862, 1053–1057
- Chipmunk, least, 486–489
- Cipollini, Martin L., see Levey, Douglas J., and —
- Circus aeruginosus*, 635–641
- Clark, Colin W., see Brodin, Anders, et al.
- Clark, Robert G., see Dzus, Elston H., and —
- Clayton, Dale H., and Janice Moore (Eds.), Host-par-

- asite evolution: General principles and avian models (rev.), 546–547
- Cloacal protuberance in *Panurus biarmicus*, 964–969
- Clutch size in *Branta bernicla*, 613–620; *Dendroica occidentalis*, 739–745; *D. townsendi*, 739–745; *Eudynastes chrysocome*, 478–482; *Parus major*, 1034–1051
- Coates, Brian J., and K. David Bishop, A guide to the birds of Wallacea: Sulawesi, The Moluccas and Lesser Sunda Islands, Indonesia (rev.), 811–813
- Coereba flaveola*, 780–786
- Colaptes chrysoides*, 119–126
- Collier, Christine L., see Powell, Abby N., and —
- Colony-site dynamics in *Chen caerulescens*, 642–652; *Sterna nilotica*, 970–978
- Columbia livia*, 175–187, 916–928
- Commentaries, Evaluating models of departure strategies in alcids, see Ydenberg, R.C.; History and tradition, or contemporary ornithology? Why ornithological journals should not have bird names, see Remsen, J. V., et al.; Keep The Auk alive and flying, see Woolfenden, Glen E., et al.; Modeling departure strategies in auks, see Gaston, Anthony J.; On forest-interior species, edge avoidance, area sensitivity, and dogmas in avian conservation, see Villard, Marc-André; On the role of the referee, see Parkes, Kenneth C.; Response to Latta and Baltz (1997), see Rappole, John H., and —
- Communication system of *Junco hyemalis*, 386–393
- Competition among *Larus dominicanus*, *Sterna eurysterna*, and *S. maxima*, 1068–1071; between *Anas strepera* and *Fulica americana*, 670–683; *Strix occidentalis* and *S. varia*, 50–56; *Vermivora chrysopatra* and *V. pinus*, 209–214
- Confer, John L., and Jeffery L. Larkin, Behavioral interactions between Golden-winged and Blue-winged warblers, 209–214
- Congdon, Justin D., see Gessaman, James A., et al.
- Congruence analysis in Ardeidae, 127–141
- Conner, Richard N., Daniel Saenz, D. Craig Rudolph, William G. Ross, and David L. Kulhavy, Red-cockaded Woodpecker nest-cavity selection: Relationships with cavity age and resin production, 447–454
- Conrad, Kelvin F., Raleigh J. Robertson, and Peter T. Boag, Frequency of extrapair young increases in second broods of Eastern Phoebe, 497–502
- Conservation of *Herpsilochmus gentryi*, 559–576; understory birds in Costa Rica, 998–1016
- Cooke, Fred, see Ganter, Barbara, and —
- Cooper, John M., see Campbell, R. Wayne, et al.
- Cooperative breeding in *Calocitta formosa*, 327–339; *Semnornis ramphastinus*, 4–15
- Coot, American, 670–683
- Cordero, Pedro J., see Greenberg, Russell, et al.
- Costs of reproduction in *Aptenodytes patagonicus*, 767–771
- Cotterill, Susan E., see Hannon, Susan J., and —
- Coues Award, 1997: Chandler S. Robbins, 257–259
- Cowbird, Brown-headed, 376–385, 843–850, 1057–1062; Shiny, 871–878
- Craig, David P., Chipmunks use leverage to eat oversized eggs: Support for the use of quail eggs in artificial nest studies, 486–489
- Crease, T. J., see Gissing, G. J., et al.
- Crosby, Michael J., see Stattersfield, Alison J., et al.
- Cuckoo, Common, 235–239
- Cuculus canorus*, 235–239
- Daan, Serge, see Riedstra, Bernd, et al.
- Dall'Antonia, Luigi, see Benvenuti, Silvano, et al.
- Dark, Shawna J., R. J. Gutierrez, and Gordon I. Gould, Jr., The Barred Owl (*Strix varia*) invasion in California, 50–56
- Dawe, Neil K., see Campbell, R. Wayne, et al.
- Davis, L.S., see Hunter, Fiona M., and —
- Dekker, René W. R. J., see Jones, Daryl N., et al.
- Dendrocygna viduata*, 774–780
- Dendroica adelaidae*, 890–903
- D. coronata*, 533–537
- D. magnolia*, 533–537
- D. occidentalis*, 284–310, 739–745
- D. pityophila*, 890–903
- D. plumbea*, 890–903
- D. townsendi*, 284–310, 739–745
- DeRosier, Debra, see Young, Bruce E., et al.
- Dial, Kenneth P., see Warrick, Douglas R., et al.
- Diehl, Robert H., and Ronald P. Larkin, Wingbeat frequency of two *Catharus* thrushes during nocturnal migration, 591–601
- Diet of *Bombycilla cedrorum*, 319–326; *Catharus guttatus*, 319–326; *C. minimus*, 319–326; *Hylocichla mustelina*, 319–326; *Sterna dougallii*, 519–525; *Turdus migratorius*, 319–326; *Tyto alba*, 224–229
- Differential predation by *Tyto alba*, 224–229
- Dijkstra, Cor, see Riedstra, Bernd, et al.
- Dinsmore, James J., In Memoriam: Philip Atkinson Dumont, 1903–1996, 207–208
- Dinsmore, James J., see Jackson, Laura Spess, et al.
- Dinsmore, Stephen J., see Jackson, Laura Spess, et al.
- Dispersal in *Himantopus mexicanus knudseni*, 791–797; *Hylocichla mustelina*, 349–358
- Distribution of *Chen caerulescens*, 851–862, 1053–1057; *Pycnonotus barbatus*, 404–411; *P. capensis*, 404–411; *P. nigricans*, 404–411; *Selasphorus rufus*, 240–245; *Strix occidentalis*, 50–56; *S. varia*, 50–56; *Vireo gilvus*, 142–155; *V. swainsonii*, 142–155
- Diversity of birds in Argentine forests 425–435; understory birds in Costa Rica 998–1016
- Diving-Petrel, Common, 188–195
- Domenech, Jordi, see Carrascal, Luis M., et al.
- Dominance in *Parus major*, 727–738
- Donnelly, Roarke E., review by, 550–551
- Douglas, Hector D. III, Response of Eastern Willets (*Catoptrophorus s. semipalmatus*) to vocalizations of Eastern and Western (*C. s. inornatus*) willets, 514–518
- Dove, Mourning, 1057–1062; Rock, 175–187, 916–928

- Drennan, Susan Roney, In Memoriam: Roger Tory Peterson, 1908–1996, 465–469
- Droege, Sam, see Greenberg, Russell, et al.
- Dumont, Philip Atkinson, 1903–1996, In Memoriam, 207–208
- Dunk, Jeffrey R., see Smith, Roger N., et al.
- Dunn, Jon, and Kimball Garrett, Peterson field guide to warblers of North America (rev.), 816–818
- Dysithamnus mentalis*, 577–590
- D. stictothorax*, 577–590
- Dzus, Elston H., and Robert G. Clark, Brood survival and recruitment of Mallards in relation to wetland density and hatching date, 311–318
- Eberhard, Jessica R., Evolution of nest-building behavior in *Agapornis* parrots, 455–464
- Ecology of Procellariidae, 1017–1033; *Pycnonotus barbatus*, 404–411; *P. capensis*, 404–411; *P. nigricans*, 404–411
- Ecomorphology of Philippine raptors, 713–726; Procellariidae, 1017–1033
- Edge effects on birds in Argentina, 425–435; birds in woodlots, 16–25
- Editorial, 278
- Egg hatchability in *Rhea americana*, 340–348
- Egg mass in *Aegelaius phoeniceus*, 843–850; *Molothrus ater*, 843–850
- Egg rejection by *Zenaida macroura*, 1057–1062
- Ehresman, Bruce L., see Jackson, Laura Spess, et al.
- Eichholz, Michael W., see Sedinger, James S., et al.
- Ejaculate quality in *Juncos hyemalis*, 684–693
- Emberizidae, 412–424
- Enderson, James H., review by, 268–269
- Energetics of *Coereba flaveola*, 780–786; *Circus aeruginosus* nestlings, 635–641; *Troglodytes aedon* nestlings, 863–870
- Engilis, Andrew, Jr., see Reed, J. Michael, et al.
- Engstrom, R. Todd, and Grzegorz Mikusinski, Ecological neighborhoods in Red-cockaded Wood-pecker populations, 473–478
- Erratum, see Weathers, Wesley W.
- Erwin, R. Michael, James D. Nichols, T. Brian Eyler, Daniel B. Stotts, and Barry R. Truitt, Modeling colony-site dynamics: A case study of Gull-billed Terns (*Sterna nilotica*) in coastal Virginia, 970–978
- Espinosa de los Monteros, Alejandro, Phylogenetic relationships among the trogons, 937–954
- Eudyptes chrysocome*, 478–482
- Evans, Karen, see Reed, J. Michael, et al.
- Extrapair matings in *Calidris maritima*, 602–612; *Charadrius tristis*, 230–234; *Pygoscelis adeliae*, 526–528; *Sayornis phoebe*, 497–502
- Eyler, T. Brian, see Erwin, R. Michael, et al.
- Faaborg, John, see Anders, Angela D., et al.
- Falconiformes, 713–726
- Farber, Paul Lawrence, Discovering birds: The emergence of ornithology as a scientific discipline, 1760–1850 (rev.), 550–551
- Fat loads in *Calidris pusilla*, 904–915; *Phylloscopus trochilus*, 759–763
- Feather growth rate in *Parus major*, 727–738
- Feeding ecology of *Anas strepera*, 670–683; *Fulica americana*, 670–683; *Molothrus ater*, 376–385; *Sterna dougallii*, 519–525
- Fernández, Gustavo J., and Juan C. Reboreda, Effects of clutch size and timing of breeding on reproductive success of Greater Rheas, 340–348
- Ficedula albicollis*, 1063–1067
- Ficken, Millicent S., In Memoriam: Charles M. Weise, 1926–1997, 207
- Fidelity to brood sites in *Branta bernicla*, 436–446
- Fidelity to nesting sites in *Calonectris diomedea*, 483–486; *Chen caerulescens*, 642–652; *Toxostoma rufum*, 929–936; *Turdus migratorius*, 929–936
- Finch, Deborah M., review by, 260–261
- Finch, Deborah M., see Yong, Wang, et al.
- Fleckenstein, John, see Jackson, Laura Spess, et al.
- Fleischer, Robert C., see Greenberg, Russell, et al.
- Flicker, Gilded, 119–126
- Flight in *Catharus fuscescens*, 591–601; *C. ustulatus*, 591–601; *Columbia livia*, 916–928; *Sturnus vulgaris*, 771–774
- Flight range in *Calidris pusilla*, 904–915
- Flint, Paul L., see Sedinger, James S., et al.
- Flycatcher, Collared, 1063–1067
- Food availability in *Molothrus ater*, 376–385; *Semnornis ramphastinus*, 4–15
- Foraging behavior of *Baeolophus bicolor*, 221–223; *Bubo virginianus*, 694–705; *Limosa lapponica*, 494–497
- Foraging flights of *Uria lomvia*, 57–66
- Foraging of *Anas strepera*, 670–683; *Bombycilla cedrorum*, 319–326, 359–367; *Catharus guttatus*, 319–326; *C. minimus*, 319–326; *Fulica americana*, 670–683; *Hylocichla mustelina*, 319–326; *Molothrus ater*, 376–385; *Nectarinia chalybea*, 156–165; *Promerops cafer*, 156–165; *Sterna dougallii*, 519–525; *Turdus migratorius*, 319–326; *Tyto alba*, 224–229; *Uria lomvia*, 57–66
- Forbes, Scott, review by, 815–816
- Fraga, Rosendo M., review by, 818–819
- Fragmentation effects on forest-interior species, 801–805; *Hylocichla mustelina*, 879–889; *Passerculus sandwichensis beldingi*, 508–513; *Seiurus aurocapillus*, 96–104; *Semnornis ramphastinus*, 4–15; *Sitta europaea*, 955–963
- Fransson, Thord, and Sven Jakobsson, Fat storage in male Willow Warblers in spring: Do residents arrive lean or fat?, 759–763
- Freemark, Kathryn E., review by, 551–553
- Frith, Shanna D., see Mazur, Kurt M., et al.
- Frugivory in *Semnornis ramphastinus*, 4–15
- Fruit consumption by *Bombycilla cedrorum*, 359–367
- Fruit digestion by *Bombycilla cedrorum*, 319–326; *Catharus guttatus*, 319–326; *C. minimus*, 319–326;

- Hylocichla mustelina*, 319–326; *Turdus migratorius*, 319–326
- Fruit secondary metabolites in *Bombycilla cedrorum*, 359–367
- Fry, C. Hillary, see Urban, Emil K., et al.
- Fugate, Michael, see Patten, Michael A., and —
- Fulica americana*, 670–683
- Fulmaris glacialis*, 188–195
- Furlow, Bryant, Rebecca T. Kimball, and Michael C. Marshall, Are rooster crows honest signals of fighting ability?, 763–766
- Gadwall, 670–683
- Gallinula mortierii*, 528–532
- Gallus gallus*, 763–766
- Gamauf, Anita, Monika Preleuthner, and Hans Winkler, Philippine birds of prey: Interrelations among habitat, morphology, and behavior, 713–726
- Ganter, Barbara, and Fred Cooke, Colonial nesters in a deteriorating habitat: Site fidelity and colony dynamics of Lesser Snow Geese, 642–652
- Garrett, Kimball, see Dunn, Jon, and —
- Gaston, Anthony J., Modeling departure strategies in auks, 798–800
- Gauthier, Jean, and Yves Aubry (Eds.), The breeding birds of Québec: Atlas of the breeding birds of southern Québec (rev.), 269–270
- Geographic variation in breeding parameters in *Parus major*, 1034–1051
- Gerwin, John A., and Robert M. Zink, Phylogenetic patterns in the Trochilidae, 105–118
- Gessaman, James A., Roy D. Nagle, and Justin D. Congdon, Evaluation of the cyclopropane absorption method of measuring avian body fat, 175–187
- Gill, Frank B., Hybridization in birds, 281–283
- Gill, Robert E., Jr., see Piersma, Theunis, and —
- Gissing, G. J., T. J. Crease, and A. L. A. Middleton, Extrypair paternity associated with renesting in the American Goldfinch, 230–234
- Godwit, Bar-tailed, 196–203, 494–497
- Goldfinch, American, 230–234
- Goldizen, Alan R., see Goldizen, Anne W., et al.
- Goldizen, Anne W., Alan R. Goldizen, David A. Putland, David M. Lambert, Craig D. Millar, and Jason C. Buchan, "Wife-sharing" in the Tasmanian Native Hen (*Gallinula mortierii*): Is it caused by a male-biased sex ratio?, 528–532
- Goose, Canada, 26–33; Lesser Snow, 642–652, 851–862, 1053–1057
- Gould, Gordon I., Jr., see Dark, Shawna J., et al.
- Greenberg, Russell, Pedro J. Cordero, Sam Droege, and Robert C. Fleischer, Morphological adaptation with no mitochondrial DNA differentiation in the Coastal Plain Swamp Sparrow, 706–712
- Growth in *Branta bernicla*, 613–620; *Oceanodroma furcata*, 67–75
- Grubb, Thomas C., Jr., see Pravosudov, Vladimir V., and —
- Gudmundsson, Gudmundur A., see Benvenuti, Silvano, et al.
- Gull, Black-headed, 85–95; Kelp, 1068–1071
- Gustafsson, Lars, see Wiggins, David A., et al.
- Gutiérrez, R. J., see Dark, Shawna J., et al.
- Haas, Carola A., Effects of prior nesting success on site fidelity and breeding dispersal: An experimental approach, 929–936
- Habitat use by *Anas strepera*, 670–683; Argentine birds, 425–435; *Branta bernicla*, 436–446; *Bubo virginianus*, 694–705; *Calocitta formosa*, 327–339; *Chen caerulescens*, 642–652, 851–862; *Colaptes chrysoides*, 119–126; *Fulica americana*, 670–683; *Herpsilochmus gentryi*, 559–576; *Himantopus mexicanus knudseni*, 791–797; *Hylocichla mustelina*, 349–358, 879–889; *Hylopezus (macularius) auricularis*, 1072–1073; *Limosa lapponica*, 494–497; *Molothrus ater*, 376–385; *Passerculus sandwichensis beldingi*, 508–513; Philippine raptors, 713–726; *Picoides borealis*, 447–454, 473–478; *Rynchops niger*, 970–978; *Seiurus aurocapillus*, 96–104; *Sitta europaea*, 955–963; *Spheniscus magellanicus*, 34–49; *Sterna hirundo*, 970–978; *S. nilotica*, 970–978; *Strix varia*, 746–754; understory birds in Costa Rica, 998–1016; *Wilsonia pusilla*, 829–842
- Hailman, Jack P., see Woolfenden, Glen E., et al.
- Hannon, Susan J., and Susan E. Cotterill, Nest predation in aspen woodlots in an agricultural area in Alberta: The enemy from within, 16–25
- Harrier, Marsh, 635–641
- Harrington, Brian A., see Pfister, Charles, et al.
- Harrison, Colin J. O., see Baicich, Paul J., and —
- Hausberger, Martine, see Snowdown, Charles T., and —
- Hawk, Red-tailed, 368–375
- Heinrich, Bernd, review by, 267–268
- Helleiner, Frederick M., review by, 269–270
- Hemesath, Lisa M., see Jackson, Laura Spess, et al.
- Hennessey, A. Bennett, review by, 819–820
- Hepp, Gary R., see McKnight, S. Keith, and —
- Heppner, Frank H., see Moyle, Robert G., and —
- Herons, phylogeny, 127–141
- Herpsilochmus gentryi*, new species, 559–576
- Herzog, Mark P., see Sedinger, James S., et al.
- Hill, Geoffrey E., Robert S. Sargent, and Martha B. Sargent, Recent change in the winter distribution of Rufous Hummingbirds, 240–245
- Himantopus mexicanus knudseni*, 791–797
- Hochachka, Wesley M., review by, 548–550
- Hoi, Herbert, see Sax, Andreas, and —
- Holt, Harold R., A birder's guide to Colorado (rev.), 272
- Homberger, Dominique G., review by, 1085–1088
- Hood, Laura C., P. Dee Boersma, and John C. Wingfield, The adrenocortical response to stress in in-

- cubating Magellanic Penguins (*Spheniscus magellanicus*), 76–84
- Houston, C. Stuart, see Marks, Jeffrey S., and —
- Hummingbird, Rufous, 240–245
- Hummingbirds, phylogeny, 105–118
- Hunter, Fiona M., and L.S. Davis, Female Adélie Penguins acquire nest material from extrapair males after engaging in extrapair copulations, 526–528
- Hutto, Richard L., On the importance of stopover sites to migrating birds, 823–825
- Hybrid zones, 284–310
- Hybridization of *Dendroica occidentalis* and *D. townsendi*, 284–310, 739–745; *D. coronata* and *D. magnolia*, 533–537; *Passerina amoena* and *P. cyanea*, 537–542; *Strix occidentalis* and *S. varia*, 50–56
- Hylocichla mustelina*, 319–326, 349–358, 879–889
- Hylopezus (macularius) auricularis*, 1072–1073
- Hypocnemis cantator*, 577–590
- H. hypoxantha*, 577–590
- Inbreeding in *Calonectris diomedea*, 483–486
- Incubation in *Agelaius phoeniceus*, 843–850; *Charadrius semipalmatus*, 166–174; *Eudyptes chrysocome*, 478–482; *Molothrus ater*, 843–850; *Spheniscus magellanicus*, 76–84
- Isler, Morton L., In Memoriam: Betsy Trent Thomas, 1923–1998, 1052
- Isler, Morton L., Phyllis R. Isler, and Bret M. Whitney, Use of vocalizations to establish species limits in antbirds (Passeriformes: Thamnophilidae), 577–590
- Isler, Phyllis R., see Isler, Morton L., et al.
- Jackson, Laura Spess, Carol A. Thompson, James J. Dinsmore, Bruce L. Ehresman, John Fleckenstein, Robert Cecil, Lisa M. Hemesath, and Stephen J. Dinsmore, The Iowa breeding bird atlas (rev.), 270–272
- Jackson, Susan, Susan W. Nicolson, and Christopher N. Lotz, Sugar preferences and “side bias” in Cape Sugarbirds and Lesser Double-collared Sunbirds, 156–165
- Jakobsson, Sven, see Fransson, Thord, and —
- Jaksic, Fabián, Ecología de los vertebrados de Chile (rev.), 818–819
- James, Paul C., see Mazur, Kurt M., et al.
- Johnsgard, Paul A., review by, 818
- Johnson, Michael S., see Baker, Myron C., and —
- Jones, Daryl N., René W. R. J. Dekker, and Cees S. Roselaar, The megapodes: Megapodiidae (rev.), 265–266
- Junco, Dark-eyed, 386–393, 684–693
- Junco hyemalis*, 386–393, 684–693
- Junglefowl, Red, 763–766
- Kahn, Nate W., Judith St. John, and Tom W. Quinn, Chromosome-specific intron size differences in the avian CHD gene provide an efficient method for sex identification in birds, 1074–1078
- Kaiser, Gary W., see Campbell, R. Wayne, et al.
- Kasprzyk, Mark J., see Pfister, Charles, et al.
- Kast, Tracey L., Ellen D. Ketterson, and Val Nolan, Jr., Variation in ejaculate quality in Dark-eyed Juncos according to season, stage of reproduction, and testosterone treatment, 684–693
- Kelly, Jeffrey F., see Yong, Wang, et al.
- Kennedy, Robert S., and Hector C. Miranda, Jr., In Memoriam: Dioscoro S. Rabor, 1911–1996, 204–205
- Ketterson, Ellen D., see Kast, Tracey L., et al.
- Ketterson, Ellen D., see Nolan, Val, Jr., and —
- Keith, Stuart, see Urban, Emil K., et al.
- Kimball, Rebecca T., see Furlow, Bryant, et al.
- King, Jon R., review by, 816–818
- Krebs, Charles J., see Rohner, Christoph, and —
- Kroodsma, Donald E., review by, 813–815
- Kulhavy, David L., see Conner, Richard N., et al.
- Kushlan, James A., see Remsen, J. V., et al.
- Kuznetsov, Sergei B., Vasily V. Baranyuk, and John Y. Takekawa, Genetic differentiation between wintering populations of Lesser Snow Geese nesting on Wrangel Island, 1053–1057
- LaBranche, Melinda S., An application of O’Connor’s brood reduction model, 502–507
- Lambert, David M., see Goldizen, Anne W., et al.
- Langen, Tom A., and Sandra L. Vehrencamp, Ecological factors affecting group and territory size in White-throated Magpie-Jays, 327–339
- Lanner, Ronald M., Made for each other: A symbiosis of birds and pines (rev.), 263–264
- Lanyon, Wesley E., see Woolfenden, Glen E., et al.
- Larkin, Jeffery L., see Confer, John L., and —
- Larkin, Ronald P., see Diehl, Robert H., and —
- Larus dominicanus*, 1068–1071
- L. ridibundus*, 85–95
- Latta, Steven C., Kenneth C. Parkes, and Joseph M. Wunderle, Jr., A new intrageneric *Dendroica* hybrid from Hispaniola, 533–537
- Laughlin, Sarah B., review by, 1091
- Leafloor, James O., C. Davison Ankney, and Donald H. Rusch, Environmental effects on body size of Canada Geese, 26–33
- Lebreton, Jean-Dominique, see Prévot-Julliard, Anne-Caroline, et al.
- Lengyel, Szabolcs, Julie A. Robinson, and Lewis W. Oring, Chick recognition in American Avocets: A chick-exchange study, 490–494
- Levey, Douglas J., and Martin L. Cipollini, A glycoalkaloid in ripe fruit deters consumption by Cedar Waxwings, 359–367
- Lifjeld, Jan T., see Pierce, Elin P., and —
- Limosa lapponica*, 196–203, 494–497
- Lindberg, Mark S., and James S. Sedinger, Ecological significance of brood-site fidelity in Black Brant: Spatial, annual, and age-related variation, 436–446
- Lindberg, Mark S., see Sedinger, James S., et al.

- Lloyd, Penn, and Antony R. Palmer, Abiotic factors as predictors of distribution in southern African bulbuls, 404–411
- Loiselle, Bette A., see Remsen, J. V., et al.
- Lord, Adrian J., see Stattersfield, Alison J., et al.
- Lopez de Casenave, Javier, Juan Pablo Pelotto, Sandra M. Caziani, Myriam Mermoz, and Jorge Protomastro, Responses of avian assemblages to a natural edge in a Chaco semiarid forest in Argentina, 425–435
- Lotz, Christopher N., see Jackson, Susan, et al.
- Lovette, Irby J., Eldredge Bermingham, Gilles Seutin, and Robert E. Ricklefs, Evolutionary differentiation in three endemic West Indian warblers, 890–903
- Lozano, George, see Zuk, Marlene, and —
- Macronectes giganteus*, 188–195
- Magpie-Jay, White-throated, 327–339
- Maijer, Sjoerd, Rediscovery of *Hylopezuus (macularius) auricularis*: Distinctive song and habitat indicate species rank, 1072–1073
- Maijer, Sjoerd, Bird sounds of Bolivia (rev.), 819–820
- Mallard, 311–318, 988–997
- Maneuvering flight in *Columbia livia*, 916–928
- Marks, Jeffrey S., In Memoriam: Philip L. Wright, 1914–1997, 206
- Marks, Jeffrey S., and C. Stuart Houston, review by, 1088–1089
- Marshall, Michael C., see Furlow, Bryant, et al.
- Marshbird, Brown-and-yellow, 871–878
- Marti, Carl D., reviews by, 553
- Martin-Vivaldi, Manuel, see Palomino, José Javier, et al.
- Mating system of *Calidris mauri*, 786–791; *C. pusilla*, 786–791; *Gallinula mortierii*, 528–532; *Pygoscelis adeliae*, 526–528; *Sayornis phoebe*, 497–502
- Matthysen, Erik, and Frank Adriensen, Forest size and isolation have no effect on reproductive success of Eurasian Nuthatches (*Sitta europaea*), 955–963
- Mayr, Ernst, This is biology (rev.), 1085–1088
- Mazur, Kurt M., Shanna D. Frith, and Paul C. James, Barred Owl home range and habitat selection in the boreal forest of central Saskatchewan, 746–754
- McCaffery, Brian J., Implications of frequent habitat switches in foraging Bar-tailed Godwits, 494–497
- McCracken, Kevin G., and Frederick H. Sheldon, Molecular and osteological heron phylogenies: Sources of incongruence, 127–141
- McDonald, M. Victoria, see Rappole, John H., and —
- McKnight, S. Keith, and Gary R. Hepp, Foraging-niche dynamics of Gadwalls and American Coots in winter, 670–683
- McNall, Michael C. E., see Campbell, R. Wayne, et al.
- McTaggart-Cowan, Ian, see Campbell, R. Wayne, et al.
- Mearns, Barbara, and Richard Mearns, The bird collectors (rev.), 1088–1089
- Mearns, Richard, see Mearns, Barbara, and —
- Memorial of Philip Atkinson Dumont, 207–208; Martin Humphrey Moynihan, 755–758; Roger Tory Peterson, 465–469; Dioscoro S. Rabor, 204–205; Helmut Sick, 470–472; Betsy Trent Thomas, 1052; Charles M. Weise, 207; Philip L. Wright, 206
- Melospiza georgiana nigrescens*, 706–712
- Melvin, Edward F., see Thompson, Christopher W., et al.
- Mermoz, Myriam E., and Juan C. Reboreda, Nesting success in Brown-and-yellow Marshbirds: Effects of timing, nest site, and brood parasitism, 871–878
- Mermoz, Myriam E., see Lopez de Casenave, Javier, et al.
- Merola-Zwartjes, Michele, Metabolic rate, temperature regulation, and the energetic implications of roost nests in the Bananaquit (*Coereba flaveola*), 780–786
- Metabolism of *Coereba flaveola*, 780–786
- Middleton, A. L. A., see Gissing, G. J., et al.
- Migration of *Calidris pusilla*, 904–915; *Phylloscopus trochilus*, 759–763; *Selasphorus rufus*, 240–245; *Vireo gilvus*, 142–155; *V. swainsonii*, 142–155; *Wilsonia pusilla*, 823–825, 829–842
- Migration physiology of *Limosa lapponica*, 196–203
- Migratory behavior of *Catharus fuscescens*, 591–601; *C. ustulatus*, 591–601; *Sturnus vulgaris*, 771–774
- Mikusinski, Grzegorz, see Engstrom, R. Todd, and —
- Millar, Craig D., see Goldizen, Anne W., et al.
- Miranda, Hector C., Jr., see Kennedy, Robert S., and —
- Mitochondrial DNA in Swamp Sparrows, 706–712
- Molothrus ater*, 376–385, 843–850, 1057–1062
- M. bonariensis*, 871–878
- Molt in *Dendrocygna viduata*, 774–780; *Uria aalge*, 653–669; *Vireo gilvus*, 142–155; *V. swainsonii*, 142–155
- Mondragón, Marta Lucy, see Restrepo, Carla, and —
- Moore, Frank R., see Yong, Wang, et al.
- Moore, Janice, see Clayton, Dale H., and —
- Morphology of *Chen caerulescens*, 851–862; *Emberizidae*, 412–424; *Melospiza georgiana nigrescens*, 706–712; *Passerina amoena*, 537–542; *P. cyanea*, 537–542; Philippine raptors, 713–726; *Piranga*, 621–634; *Procellariidae*, 1017–1033
- Morris, Dana L., and Frank R. Thompson III, Effects of habitat and invertebrate density on abundance and foraging behavior of Brown-headed Cowbirds, 376–385
- Morrison, Joan L., Effects of double brooding on productivity of Crested Caracaras, 979–987
- Mortality of *Buteo jamaicensis* nestlings, 368–375

- Movements of *Himantopus mexicanus knudseni*, 791–797
- Moyle, Robert G., and Frank H. Heppner, Flight without horizon references in European Starlings, 771–774
- Moynihan, Martin Humphrey, 1928–1996, In Memoriam, 755–758
- Mozetich, Ingrid, see Carrascal, Luis M., et al.
- Mull, John F., review by, 1092–1093
- Multiple broods in *Caracara plancus*, 979–987
- Murre, Common, 653–669; Thick-billed, 57–66
- Myrmoborus leucophrys*, 577–590
- M. myotherinus*, 577–590
- Myrmotherula brachyura*, 577–590
- M. cherriei*, 577–590
- M. obscura*, 577–590
- M. surinamensis*, 577–590
- Nagle, Roy D., see Gessaman, James A., et al.
- Native Hen, Tasmanian, 528–532
- Nectarinia chalybea*, 156–165
- Neotropical migrants, 246–251
- Nest-building behavior in *Agapornis* parrots, 455–464
- Nest predation, artificial nests, 16–25, 486–489
- Nest-site selection by *Colaptes chrysoides*, 119–126; *Larus dominicanus*, 1068–1071; *Picoides borealis*, 447–454; *Pseudoleistes virescens*, 871–878; *Seiurus aurocapillus*, 96–104; *Spheniscus magellanicus*, 34–49; *Sterna eurystomata*, 1068–1071; *S. maxima*, 1068–1071
- Nesting success of *Cercotrichas galactotes*, 235–239; *Passerulus sandwichensis beldingi*, 508–513; *Pseudoleistes virescens*, 871–878; *Rhea americana*, 340–348; *Sitta europaea*, 955–963; *Spheniscus magellanicus*, 34–49; *Toxostoma rufum*, 929–936; *Turdus migratorius*, 929–936
- Nestling departure strategies of auks, 798–800, 800–801
- New species, *Herpsilochmus gentryi*, 559–576; Overview, 555–558
- Nichols, James D., see Erwin, R. Michael, et al.
- Nicolson, Susan W., see Jackson, Susan, et al.
- Nol, Erica, see Blanken, Michèle Sullivan, and —
- Nol, Erica, see Burke, Dawn M., and —
- Nolan, Val, Jr., and Ellen D. Ketterson (Eds.), Current Ornithology, Volume 13 (rev.), 1084–1085
- Nolan, Val, Jr., see Kast, Tracey L., et al.
- Nordell, Shawn E., see Zwartjes, Patrick W., and —
- Numts, 214–221
- Nuthatch, Eurasian, 955–963
- Oceanodroma furcata*, 67–75
- Offspring recognition in *Recurvirostra americana*, 490–494
- Olsson, Olof, see Brodin, Anders, et al.
- Orientation in *Sturnus vulgaris*, 771–774
- Oring, Lewis W., see Lengyel, Szabolcs, et al.
- Oring, Lewis W., see Reed, J. Michael, et al.
- Ovenbird, 96–104
- Overviews, Another threat posed by forest fragmentation: Reduced food supply, see Robinson, Scott K.; Avian genitalia, see Briskie, James V.; Hybridization in birds, see Gill, Frank B.; New species and new species limits in birds, see Peterson, A. Townsend; On the importance of stopover sites to migrating birds, see Hutto, Richard L.
- Owl, Barn, 224–229; Barred, 50–56, 746–754; Great Horned, 694–705; Spotted, 50–56
- Pagodroma nivea*, 188–195
- Pain, Deborah J., and Michael W. Pienkowski (Eds.), Birds and farming in Europe: The common agricultural policy and its implications for bird conservation (rev.), 551–553
- Palmer, Antony R., see Lloyd, Penn, and —
- Palomino, José Javier, Manuel Martin-Vivaldi, and Manuel Soler, Early arrival is not advantageous for Rufous Bush-Robins parasitized by Common Cuckoos, 235–239
- Panurus biarmicus*, 964–969
- Parental care in *Charadrius semipalmatus*, 166–174
- Parental investment in *Calidris maritima*, 602–612
- Parkes, Kenneth C., On the role of the referee, 1079–1080
- Parkes, Kenneth C., see Latta, Steven C., et al.
- Parrish, Julia K., see Boersma, P. Dee, and —
- Pärt, Tomas, see Wiggins, David A., et al.
- Parus major*, 727–738, 1034–1051
- Pasquet, Eric, see Bretagnolle, Vincent, et al.
- Passerulus sandwichensis beldingi*, 508–513
- Passerina amoena*, 537–542
- P. cyanea*, 537–542
- Paternity in *Calidris maritima*, 602–612; *Carduelis tristis*, 230–234; *Gallinula mortierii*, 528–532; *Sayornis phoebe*, 497–502
- Patten, Michael A., and Michael Fugate, Systematic relationships among the emberizid sparrows, 412–424
- Pearson, Scott F., and Sievert Rohwer, Influence of breeding phenology and clutch size on hybridization between Hermit and Townsend's warblers, 739–745
- Peer, Brian D., and Eric K. Bollinger, Rejection of cowbird eggs by Mourning Doves: A manifestation of nest usurpation?, 1057–1062
- Pelecanoides urinatrix*, 188–195
- Pelotto, Juan Pablo, see Lopez de Casenave, Javier, et al.
- Penguin, Adélie, 526–528; King, 767–771; Magellanic, 34–49, 76–84; Rockhopper, 478–482
- Person, Brian T., see Sedinger, James S., et al.
- Peterson, A. Townsend, New species and new species limits in birds, 555–558
- Peterson, Roger Tory, 1908–1996, In Memoriam, 465–469
- Petrel, Bulwer's, 188–195; Fiji, 188–195; Mascarene, 188–195; Snow, 188–195; Tahiti, 188–195

- Petrels, morphology, 1017–1033  
 Petrie, Scott A., Molt patterns of nonbreeding White-faced Whistling-Ducks in South Africa, 774–780  
 Pfister, Charles, Mark J. Kasprzyk, and Brian A. Harrington, Body-fat levels and annual return in migrating Semipalmented Sandpipers, 904–915  
 Philopatry in *Calonectris diomedea*, 483–486; *Chen caerulescens*, 642–652; *Toxostoma rufum*, 929–936; *Turdus migratorius*, 929–936  
 Phoebe, Eastern, 497–502  
*Phylloscopus trochilus*, 759–763  
 Phylogeny of *Agapornis*, 455–464; Ardeidae, 127–141; *Callipepla*, 394–403; Emberizidae, 412–424; *Piranga*, 621–634; Procellariidae, 188–195; Trochilidae, 105–118; Trogoniformes, 937–954; West Indian warblers, 890–903  
 Physiology of *Circus aeruginosus*, 635–641; *Coereba flaveola*, 780–786; *Limosa lapponica*, 196–203; *Spheniscus magellanicus*, 76–84  
*Picoides borealis*, 447–454, 473–478, 502–507  
 Pienkowski, Michael W., see Pain, Deborah J., and —  
 Pierce, D. John, see Thompson, Christopher W., et al.  
 Pierce, Elin P., and Jan T. Lifjeld, High paternity without paternity-assurance behavior in the Purple Sandpiper, a species with high paternal investment, 602–612  
 Piersma, Theunis, and Robert E. Gill, Jr., Guts don't fly: Small digestive organs in obese Bar-tailed Godwits, 196–203  
 Piper, Walter H., review by, 1084–1085  
*Piranga bidentata*, 621–634  
*P. erythrocephala*, 621–634  
*P. flava*, 621–634  
*P. leucoptera*, 621–634  
*P. ludoviciana*, 621–634  
*P. olivacea*, 621–634  
*P. roseogularis*, 621–634  
*P. rubiceps*, 621–634  
*P. rubra*, 621–634  
 Plover, Semipalmented, 166–174  
 Population biology of *Anas platyrhynchos*, 311–318, 988–997; *Aptenodytes patagonicus*, 767–771; *Branta bernicla*, 436–446; *Larus dominicanus*, 85–95; Neotropical migrants, 246–251  
 Population genetics of *Chen caerulescens*, 1053–1057  
 Porter, R. F., S. Christensen, and P. Schiermacker-Hansen, Field guide to the birds of the Middle East (rev.), 1091–1092  
 Postfledging ecology of *Hylocichla mustelina*, 349–358  
 Powell, Abby N., and Christine L. Collier, Reproductive success of Belding's Savannah Sparrows in a highly fragmented landscape, 508–513  
 Powell, George V. N., see Young, Bruce E., et al.  
 Pradel, Roger, see Prévet-Julliard, Anne-Caroline, et al.  
 Pratt, H. Douglas, reviews by, 265–266, 272–275  
 Pravosudov, Vladimir V., and Thomas C. Grubb, Jr., Body mass, ambient temperature, time of day, and vigilance in Tufted Titmice, 221–223  
 Predatory behavior of least chipmunk, 486–489; *Bubo virginianus*, 694–705  
 Preleuthner, Monika, see Gamauf, Anita, et al.  
 Prévet-Julliard, Anne-Caroline, Jean-Dominique Lebreton, and Roger Pradel, Re-evaluation of the adult survival of Black-headed Gulls (*Larus ridibundus*) in presence of recapture heterogeneity, 85–95  
 Prey size selection by *Sterna dougallii*, 519–525  
*Procellaria cinerea*, 188–195  
 Procellariidae, 188–195, 1017–1033  
*Promerops cafer*, 156–165  
 Protomastro, Jorge, see Lopez de Casenave, Javier, et al.  
*Pseudobulweria atterima*, 188–195  
*P. rostrata*, 188–195  
*Pseudoleistes virescens*, 871–878  
*Pterodroma baraui*, 188–195  
*P. nigripennis*, 188–195  
*Puffinus pacificus*, 188–195  
 Putland, David A., see Goldizen, Anne W., et al.  
*Pycnonotus barbatus*, 404–411  
*P. capensis*, 404–411  
*P. nigricans*, 404–411  
*Pygoscelis adeliae*, 526–528  
 Pyle, Peter, Flight-feather molt patterns and age in North American owls (rev.), 553  
 Pyle, Peter, Identification guide to North American birds. Part 1. Columbidae through Ploceidae (rev.), 1081–1084  
 Quail, California, 394–403; Elegant, 394–403; Gambel's, 394–403; Scaled, 394–403  
 Quail, phylogeny, 394–403  
 Quinn, Thomas W., see Kahn, Nate W., et al.  
 Quinn, Thomas W., see Sorenson, Michael D., and —  
 Quintana, Flavio, and Pablo Yorio, Competition for nest sites between Kelp Gulls (*Larus dominicanus*) and terns (*Sterna maxima* and *S. eurygnatha*) in Patagonia, 1068–1071  
 Rabor, Dioscoro S., 1911–1996, In Memoriam, 204–205  
 Rabouam, Corinne, Jean-Claude Thibault, and Vincent Bretagnolle, Natal philopatry and close inbreeding in Cory's Shearwater (*Calonectris diomedea*), 483–486  
 Rappole, John H., The ecology of migrant birds. A Neotropical perspective (rev.), 260–261  
 Rappole, John H., and M. Victoria McDonald, Response to Latta and Baltz (1997), 246–251  
 Ratcliffe, Derek, The Raven (rev.), 267–268  
 Reboreda, Juan C., see Fernández, Gustavo J., and —  
 Reboreda, Juan C., see Mermoz, Myriam E., and —  
 Recruitment in *Anas platyrhynchos*, 311–318, 988–997

- Recurvirostra americana*, 490–494
- Reed, J. Michael, Michael D. Silbernagle, Karen Evans, Andrew Engilis, Jr., and Lewis W. Oring, Subadult movement patterns of the endangered Hawaiian Stilt (*Himantopus mexicanus knudseni*), 791–797
- Remsen, J. V., James A. Kushlan, and Bette A. Loisele, History and tradition, or contemporary ornithology? Why ornithological journals should not have bird names, 252–253
- Reproductive performance of *Anas platyrhynchos*, 988–997; *Aptenodytes patagonicus*, 767–771; *Buteo jamaicensis*, 368–375; *Caracara plancus*, 979–987; *Cercotrichas galactotes*, 235–239; *Ficedula albicollis*, 1063–1067; *Hylocichla mustelina*, 879–889; *Parus major*, 1034–1051; *Passerulus sandwichensis belldingi*, 508–513; *Picoides borealis*, 502–507; *Pseudoleistes virescens*, 871–878; *Rhea americana*, 340–348; *Seiurus aurocapillus*, 96–104; *Sitta europaea*, 955–963; *Spheniscus magellanicus*, 34–49; *Toxostoma rufum*, 929–936; *Turdus migratorius*, 929–936
- Restrepo, Carla, and Marta Lucy Mondragón, Cooperative breeding in the frugivorous Toucan Barbet (*Semnornis ramphastinus*), 4–15
- Rhea americana*, 340–348
- Rhea*, Greater, 340–348
- Ricklefs, Robert E., see Lovette, Irby J., et al.
- Riedstra, Bernd, Cor Dijkstra, and Serge Daan, Daily energy expenditure of male and female Marsh Harrier nestlings, 635–641
- Robertson, Raleigh J., see Conrad, Kelvin F., et al.
- Robbins, Chandler S., and Eirik A. T. Blom, Atlas of the breeding birds of Maryland and the District of Columbia (rev.), 1091
- Robin, American, 319–326, 929–936
- Robinson, Julie A., see Lengyel, Szabolcs, et al.
- Robinson, Scott K., Another threat posed by forest fragmentation: Reduced food supply, 1–4
- Rodner, Clemencia, see Isler, Morton L., and —
- Rohner, Christoph, and Charles J. Krebs, Response of Great Horned Owls to experimental “hot spots” of snowshoe hare density, 694–705
- Rohwer, Sievert, and Christopher Wood, Three hybrid zones between Hermit and Townsend’s warblers in Washington and Oregon, 284–310
- Rohwer, Sievert, see Pearson, Scott F., and —
- Rohwer, Sievert, see Voelker, Gary, and —
- Roosting behavior of *Coereba flaveola*, 780–786
- Roselaar, Cees S., see Jones, Daryl N., et al.
- Ross, William G., see Conner, Richard N., et al.
- Roth, Roland R., see Weinberg, Howard J., and —
- Rudolph, D. Craig, see Conner, Richard N., et al.
- Rusch, Donald H., see Leafloor, James O., et al.
- Ryder, Ronald A., review by, 272
- Rynchops niger*, 970–978
- Saenz, Daniel, see Conner, Richard N., et al.
- Sandercock, Brett K., Assortative mating and sexual size dimorphism in Western and Semipalmated sandpipers, 786–791
- Sandpiper, Purple, 602–612; Semipalmated, 786–791, 904–915; Western, 786–791
- Sanz, Juan José, Effects of geographic location and habitat on breeding parameters of Great Tits, 1034–1051
- Sargent, Martha B., see Hill, Geoffrey E., et al.
- Sargent, Robert S., see Hill, Geoffrey E., et al.
- Sax, Andreas, and Herbert Hoi, Individual and temporal variation in cloacal protuberance size of male Bearded Tits (*Panurus biarmicus*), 964–969
- Sayornis phoebe*, 497–502
- Schiermacker-Hansen, P., see Porter, R. F., and —
- Sedinger, James S., Mark S. Lindberg, Brian T. Person, Michael W. Eichholz, Mark P. Herzog, and Paul L. Flint, Density-dependent effects on growth, body size, and clutch size in Black Brant, 613–620
- Sedinger, James S., see Lindberg, Mark S., and —
- Seiurus aurocapillus*, 96–104
- Selasphorus rufus*, 240–245
- Semnornis ramphastinus*, 4–15
- Senar, Juan Carlos, see Carrascal, Luis M., et al.
- Seutin, Gilles, see Lovette, Irby J., et al.
- Sex determination, 1074–1078
- Sex ratios in *Circus aeruginosus*, 635–641; *Gallinula mortierii*, 528–532
- Sexual selection in *Gallus gallus*, 763–766; *Panurus biarmicus*, 964–969
- Sexual size dimorphism in *Calidris mauri*, 786–791; *C. pusilla*, 786–791
- Sheaffer, Susan E., Recruitment models for Mallards in eastern North America, 988–997
- Shealer, David A., Size-selective predation by a specialist forager, the Roseate Tern, 519–525
- Shearwater, Cory’s, 483–486; Wedge-tailed, 188–195
- Sheldon, Frederick H., see McCracken, Kevin G., and —
- Sherry, Thomas W., review by, 266–267
- Shipman, Pat, Taking wing: *Archaeopteryx* and the evolution of bird flight (rev.), 806–808
- Sick, Helmut, 1910–1991, In Memoriam, 470–472
- Silbernagle, Michael D., see Reed, J. Michael, et al.
- Simulium canonicolum*, 368–375
- Sitta europaea*, 955–963
- Skimmer, Black, 970–978
- Skutch, Alexander F., Life of the flycatcher (rev.), 266–267
- Smith, G. E. John, see Campbell, R. Wayne, et al.
- Smith, Neal Griffith, In Memoriam: Martin Humphrey Moynihan, 1928–1996, 755–758
- Smith, Roger N., Steven L. Cain, Stanley H. Anderson, Jeffrey R. Dunk, and Elizabeth S. Williams, Blackfly-induced mortality of nestling Red-tailed Hawks, 368–375
- Smith, Susan M., review by, 261–263
- Snowdown, Charles T., and Martine Hausberger

- (Eds.), Social influences on vocal development (rev.), 813–815
- Soler, Manuel, see Palomino, José Javier, et al.
- Song function in *Junco hyemalis*, 386–393
- Song of *Hylopezus (macularius) auricularis*, 1072–1073
- Sordahl, Tex A., review by, 270–272
- Sorenson, Michael D., and Thomas W. Quinn, Numts: A challenge for avian systematics and population biology, 214–221
- Sparrow, Belding's Savannah, 508–513; Coastal Plain Swamp, 706–712
- Spear, Larry B., and David G. Ainley, Morphological differences relative to ecological segregation in petrels (family: Procellariidae) of the tropical Pacific and Southern oceans, 1017–1033
- Species limits in Thamnophilidae, 555–558, 577–590
- Sperm competition in *Junco hyemalis*, 684–693; *Panurus biarmicus*, 964–969; Overview, 826–828
- Spheniscus magellanicus*, 34–49, 76–84
- Squires, John R., see Anderson, Stanley H., and —
- St. Clair, Colleen Cassady, What is the function of first eggs in Crested Penguins?, 478–482
- St. John, Judith, see Kahn, Nate W., et al.
- Starling, European, 771–774
- Stattersfield, Alison J., Michael J. Crosby, Adrian J. Long, and David C. Wege, Endemic bird areas of the world: Priorities for biodiversity conservation (rev.), 1089–1091
- Steenhof, Karen, review by, 547–548
- Sterna dougallii*, 519–525
- S. erygnatha*, 1068–1071
- S. hirundo*, 970–978
- S. maxima*, 1068–1071
- S. nilotica*, 970–978
- Stilt, Hawaiian, 791–797
- Stokes, David L., and P. Dee Boersma, Nest-site characteristics and reproductive success in Magellanic Penguins (*Spheniscus magellanicus*), 34–49
- Stokes, Donald W., and Lillian Q. Stokes, Stokes field guide to birds (rev.), 272–275
- Stokes, Lillian Q., see Stokes, Donald W., and —
- Stopover biology of *Wilsonia pusilla*, 823–825, 829–842
- Storm-Petrel, Fork-tailed, 67–75
- Stotts, Daniel B., see Erwin, R. Michael, et al.
- Strausberger, Bill M., Temperature, egg mass, and incubation time: A comparison of Brown-headed Cowbirds and Red-winged Blackbirds, 843–850
- Strix occidentalis*, 50–56
- S. varia*, 50–56, 746–754
- Sturnus vulgaris*, 771–774
- Sugarbird, Cape, 156–165
- Sunbird, Lesser Double-collared, 156–165
- Survivorship of *Anas platyrhynchos*, 311–318, 988–997; *Branta bernicla*, 436–446; *Ficedula albicollis*, 1063–1067; *Larus dominicanus*, 85–95; *Rhea americana*, 340–348
- Systematics of Ardeidae, 127–141; *Callipepla*, 394–403; Emberizidae, 412–424; *Hylopezus*, 1072–1073; *Piranga*, 621–634; Procellariidae, 188–195; Trochilidae, 105–118; Trogoniformes, 937–954; West Indian warblers, 890–903
- Takekawa, John Y., see Kuznetsov, Sergei B., et al.
- Tamias minimus*, 486–489
- Tanagers, phylogeny, 621–634
- Taste preferences of *Nectarinia chalybea*, 156–165; *Promerops cafer*, 156–165
- Taxonomy, antbirds, 559–576, 577–590
- Techniques, cyclopropane absorption in *Columba livia*, 175–187; detecting Numts, 214–221; sex determination, 1074–1078
- Tern, Cayenne, 1068–1071; Common, 970–978; Gull-billed, 970–978; Roseate, 519–525; Royal, 1068–1071
- Territory selection in *Calocitta formosa*, 327–339
- Thamnophilidae, 577–590
- Thamnophilus doliatus*, 577–590
- T. murinus*, 577–590
- T. palliatus*, 577–590
- T. schistaceus*, 577–590
- Thibault, Jean-Claude, see Rabouam, Corinne, et al.
- Thomas, Betsy Trent, 1923–1998, In Memoriam, 1052
- Thompson, Carol A., see Jackson, Laura Spess, et al.
- Thompson, Christopher W., review by, 1081–1084
- Thompson, Christopher W., Monique L. Wilson, Edward F. Melvin, and D. John Pierce, An unusual sequence of flight-feather molt in Common Murres and its evolutionary implications, 653–669
- Thompson, Frank R. III, see Anders, Angela D., et al.
- Thompson, Frank R. III, see Morris, Dana L., and —
- Thrasher, Brown, 929–936
- Thrush, Gray-cheeked, 319–326; Hermit, 319–326; Swainson's, 591–601; Wood, 319–326, 349–358, 879–889
- Timing of breeding in *Cercotrichas galactotes*, 235–239; *Ficedula albicollis*, 1063–1067; *Molothrus bonariensis*, 871–878; *Parus major*, 1034–1051; *Pseudoleistes virescens*, 871–878; *Rhea americana*, 340–348
- Timing of molt in *Dendrocygna viduata*, 774–780; *Uria aalge*, 653–669
- Tit, Bearded, 964–969; Great, 727–738, 1034–1051
- Titmouse, Tufted, 221–223
- Titus, Russel C., Short-range and long-range songs: Use of two acoustically distinct song classes by Dark-eyed Juncos, 386–393
- Tomback, Diana F., review by, 263–264
- Toxostoma rufum*, 929–936
- Trochilidae, 105–118
- Troglodytes aedon*, 863–870
- Trogoniformes, 937–954
- Truitt, Barry R., see Erwin, R. Michael, et al.
- Turdus migratorius*, 319–326, 929–936
- Tyto alba*, 224–229

- Uhrich, William D. (Ed.), A century of bird life in Berks County, Pennsylvania (rev.), 1092–1093
- United States Department of the Interior, Effects of military training and fire in the Snake River Birds of Prey National Conservation Area (rev.), 553
- Urban, Emil K., C. Hillary Fry, and Stuart Keith (Eds.), The birds of Africa, Volume V (rev.), 809–811
- Uria aalge*, 653–669
- U. lomvia*, 57–66
- Uribe, Fransec, see Carrascal, Luis M., et al.
- Vázquez, Diego P., review by, 1089–1091
- Veery, 591–601
- Vehrencamp, Sandra L., see Langen, Tom A., and —
- Vermivora chrysoptera*, 209–214
- V. pinus*, 209–214
- Vigilance in *Baeolophus bicolor*, 221–223
- Villard, Marc-André, On forest-interior species, edge avoidance, area sensitivity, and dogmas in avian conservation, 801–805
- Vireo gilvus*, 142–155
- V. swainsonii*, 142–155
- Vireo, Warbling, 142–155
- Vocalizations of *Catoptrophorus semipalmatus*, 514–518; *Gallus gallus*, 763–766; *Junco hyemalis*, 386–393; Thamnophilidae, 577–590
- Voelker, Gary, and Sievert Rohwer, Contrasts in scheduling of molt and migration in Eastern and Western warbling-vireos, 142–155
- Vuilleumier, François, In Memoriam: Helmut Sick, 1910–1991, 470–472
- Warbler, Adelaide's, 890–903; Blue-winged, 209–214; Golden-winged, 209–214; Hermit, 284–310, 739–745; Magnolia, 533–537; Olive-capped, 890–903; Plumbeous, 890–903; Townsend's, 284–310, 739–745; Willow, 759–763; Wilson's, 829–842; Yellow-rumped, 533–537
- Warblers, West Indian, phylogeny, 890–903
- Warbling-Vireo, Eastern, 142–155; Western, 142–155
- Warrick, Douglas R., Kenneth P. Dial, and Andrew A. Biewener, Asymmetrical force production in the maneuvering flight of pigeons, 916–928
- Watson, Jeff, The Golden Eagle (rev.), 547–548
- Waxwing, Cedar, 319–326, 359–367
- Weathers, Wesley W., Erratum: Weathers (1997), 543
- Wege, David C., see Stattersfield, Alison J., et al.
- Weinberg, Howard J., and Roland R. Roth, Forest area and habitat quality for nesting Wood Thrushes, 879–889
- Weise, Charles M., 1926–1997, In Memoriam, 207
- Whistling-Duck, White-faced, 774–780
- White, Clayton M., review by, 811–813
- Whitney, Bret M., and José Alvarez Alonso, A new *Herpsilochmus antwren* (Aves: Thamnophilidae) from northern Amazonian Peru and adjacent Ecuador: The role of edaphic heterogeneity of *terra firme* forest, 559–576
- Whitney, Bret M., see Isler, Morton L., et al.
- Wiggins, David A., Tomas Pärt, and Lars Gustafsson, Timing of breeding and reproductive costs in Collared Flycatchers, 1063–1067
- Willet, 514–518
- Williams, Elizabeth S., see Smith, Roger N., et al.
- Wilson, Monique L., see Thompson, Christopher W., et al.
- Wilsonia pusilla*, 829–842
- Wingbeat frequency of *Catharus fuscescens*, 591–601; *C. ustulatus*, 591–601
- Wingfield, John C., see Hood, Laura C., et al.
- Winkler, Hans, see Gamauf, Anita, et al.
- Witmer, Mark C., Do seeds hinder digestive processing of fruit pulp? Implications for plant/frugivore mutualisms, 319–326
- Wood, Christopher, see Rohwer, Sievert, and —
- Woodpecker, Red-cockaded, 447–454, 473–478, 502–507
- Woolfenden, Glen E., Jack P. Hailman, and Wesley E. Lanyon, Keep *The Auk* alive and flying, 254–255
- Wren, House, 863–870
- Wright, Philip L., 1914–1997, In Memoriam, 206
- Wunderle, Joseph M., Jr., see Latta, Steven C., et al.
- Ydenberg, Ronald C., Evaluating models of departure strategies in alcids, 800–801
- Yong, Wang, Deborah M. Finch, Frank R. Moore, and Jeffrey F. Kelly, Stopover ecology and habitat use of migratory Wilson's Warblers, 829–842
- Yorio, Pablo, see Quintana, Flavio, and —
- Yosef, Reuven, review by, 1091–1092
- Young, Bruce E., Debra DeRosier, and George V. N. Powell, Diversity and conservation of understory birds in the Tilarán Mountains, Costa Rica, 998–1016
- Zahavi, Amotz, and Avishag Zahavi, The handicap principle, a missing piece of Darwin's puzzle (rev.), 544–546
- Zahavi, Avishag, see Zahavi, Amotz, and —
- Zenaida macroura*, 1057–1062
- Zeveloff, Samuel I., review by, 544–546
- Zimmerman, Dale A., review by, 809–811
- Zink, Robert M., and Rachelle C. Blackwell, Molecular systematics of the Scaled Quail complex (genus *Callipepla*), 394–403
- Zink, Robert M., see Gerwin, John A., and —
- Zuk, Marlene, and George Lozano, review by, 546–547
- Zwartjes, Patrick W., and Shawn E. Nordell, Patterns of cavity-entrance orientation by Gilded Flickers (*Colaptes chrysoides*) in cardón cactus, 119–126

DATE OF ISSUE (Vol. 115, No. 4): 20 October 1998