

INDEX FOR VOLUME 101

A

- Abraham, Christine L., and Roger M. Evans, The Development of Endothermy in American White Pelicans, 832
- Acadian Flycatcher, 916, 920
- Accipiter cooperii*, 674
striatus, 674
- Acrocephalus schoenobaenus*, 153
- Activity, 390
- Activity Patterns of Nesting Mexican Spotted Owls, by David K. Delaney, Teryl G. Grubb and Paul Beier, 42
- Adams, L. G., see McIntyre, C. L., 115
- Adaptation to intensive farmland, 806
- Adult Survival of the Black Guillemot in Iceland, by Morten Frederiksen and Aevor Petersen, 589
- Aegithalos caudatus*, 681
- Aethia cristatella*, 518
pusilla, 518
pygmaea, 518
- Age difference, 689
- Agelaius phoeniceus*, 1, 729
- Aggression, 390, 737, 842
- Agriculture, 667
- Ainley, D. G., see Spear, L. B., 205
- Alaemon alaudipes*, 714
- Alaska, 115
- Alaska Peninsula, 694
- Alcidae, 518
- Aleixo, Alexandre, Effects of Selective Logging on a Bird Community in the Brazilian Atlantic Forest, 537
- Allometry, 710
- Altricial, 832
- Amat, Juan A., Rosendo M. Fraga and Gonzalo M. Arroyo, Replacement Clutches by Kentish Plovers, 746
- Amat, Juan A., Rosendo M. Fraga and Gonzalo M. Arroyo, Reuse of Nesting Scrapes by Kentish Plovers, 157
- Amazon, 529
- American Avocet, 645
Coot, 893
Kestrels, 616
Tree Sparrow, 195
Wigeon, 422
- Ammer, Frank K., and Michael S. Capp, Song Versatility and Social Context in the Bobolink, 686
- Anas*, 422
Acuta, 369
clypeata, 417
platyrhynchos, 710
- Anderson, S. H., see Gutzwiller, K. J., 378
- Anser albifrons*, 390
- Ant-following birds, 529
- Aquila chrysaetos*, 115, 664
- Area use, 169
- Argentina, 402
- Arnold, Keith A., a review of *Missouri Breeding Bird Atlas 1986-1992*, by Brad Jacobs and James D. Wilson, and *Atlas of the Breeding Birds of Tennessee*, by Charles P. Nicholson, 725
- Arroyo, Beatriz E., Copulatory Behavior of Semi-colonial Montagu's Harriers, 340
- Arroyo, G. M., see Amat, J. A., 157, and Amat, J. A., 746
- Asio otus*, 854
- Atlantic Forest, 537
- Atlas of the Breeding Birds of Tennessee*, by Charles P. Nicholson, reviewed by Keith A. Arnold, 725
- Auklet, 518
- Autumn Migration Speed of Juvenile Reed and Sedge Warblers in Relation to Date and Fat Loads, by Staffan Bensch and Bo Nielsen, 153
- Avery, Michael L., a review of *Munias and Mannikins*, by Robin Restall, 188
- Avian Biochemistry and Molecular Biology*, by Lewis Stevens, reviewed by Lowell Overton, 190
- Avian Communities of Mature Balsam Fir Forests in Newfoundland: Age-Dependence and Implications for Timber Harvesting, by Ian D. Thompson, Holly A. Hogan and William A. Montevocchi, 311
- Avian energetics, 432
- Avian Growth and Development: Evolution Within the Atricial-Precocial Spectrum*, edited by J. Mattias Starck and Robert E. Ricklefs, reviewed by Raymond J. O'Connor, 722
- Avian Molecular Evolution and Systematics*, edited by David P. Mindell, reviewed by Douglas D. Rhoads, 189
- Aythya*, 422

B

- Baeolophus bicolor*, 408, 880
griseus, 863
- Baker, Allan J., Theunis Piersma and Annette D. Greenslade, Molecular vs. Phenotypic Sexing in Red Knots, 887
- Baker, Myron C., and Jeanette T. Boylan, Singing Behavior, Mating Associations, and Reproductive Success in a Population of Hybridizing Lazuli and Indigo Buntings, 493
- Ballance, L. T., see Hertel, F., 549
- Ballard, B. M., see Igl, L. D., 771
- Balsam fir forest, 311
- Baltic Sea, 598
- Banding, 667
- Banko, P. C., see Work, T. M., 21
- Bar-tailed Desert Lark, 714
- Barba, E., see Ponz, A., 818
- Barlow, J. C., see Klicka, J., 577
- Barrow, W. C., see Rappole, J. H., 762
- Basal metabolic rate, 432
- Bearded Vulture, 164
- Beauchamp, W., see Vanderkist, B. A., 398
- Beauchamp, Wendy D., Fred Cooke, Cecilia Loughced, Lynn W. Loughheed, C. John Ralph and Stephen Courtney, Seasonal Movements of Mar-

- bled Murrelets: Evidence From Banded Birds, 671
- Bednarz, J. C., see Gerstell, A. T., 557
- Behavior of Migrating Shorebirds at North Dakota Prairie Potholes, by Manuel T. De Leon and Loren M. Smith, 645
- Behavioral Correlates of Heart Rates of Free-Living Greater White-fronted Geese, by Craig R. Ely, David H. Ward and Karen S. Bollinger, 390
- Behavioral games, 916
- Beier, P., see Delaney, D. K., 42
- Beissinger, S. R., see Grenier, J. L., 752
- Bensch, Staffan, and Bo Nielsen, Autumn Migration Speed of Juvenile Reed and Sedge Warblers in Relation to Date and Fat Loads, 153
- Berrow, S. D., N. Huin, R. Humpidge, A. W. A. Murray and P. A. Prince, Wing and Primary Growth of the Wandering Albatross, 360
- Bertellotti, Marcelo, and Pablo Yorio, Spatial and Temporal Patterns in the Diet of the Kelp Gull in Patagonia, 790
- Bertram, D. F., see Blight, L. K., 871
- Bertran, Joan, and Antoni Margalida, Copulatory Behavior of the Bearded Vulture, 164
- Bewick's Wren, 219
- Bill, 710
- Biogeography, 76
- Biomonitoring, 331
- Bird, D. M., see Fernie, K. J., 616
- Bird Collectors*, by Barbara and Richard Mearns, reviewed by William E. Davis Jr., 724
- Bird communities, 311, 537
- Bird Communities in Two Types of Anthropogenic Successional Vegetation in Central Amazonia, by Sérgio Henrique Borges and Philip C. Stouffer, 529
- Bird disturbance, 378
- Bird song, 13, 493, 845
- Birds of St. Helena*, by Beau W. Rowlands, Trevor Trueman, Storrs L. Olson, M. Neil McCulloch, and Richard K. Brooke, reviewed by David W. Steadman, 928
- Bischof, Hans-Joachim, a review of *Social Influences on Vocal Development*, edited by Charles T. Snowdon and Martine Hausberger, 455
- Black Guillemot, 589
- Black Redstart, 689
- Black-crowned Night-Heron, 607
- Black-throated Gray Warbler, 67
- Blendinger, Pedro G., Facilitation of Sap-Feeding Birds by the White-fronted Woodpecker in the Monte Desert, Argentina, 402
- Blight, Louise K., John L. Ryder and Douglas F. Bertram, Predation on Rhinoceros Auklet Eggs by a Native Population of *Peromyscus*, 871
- Boat-tailed Grackle, 845
- Bobolink, 686
- Body condition, 598
mass, 616
- Bogliani, G., see Sergio, F., 806
- Bollinger, K. S., see Ely, C. R., 390
- Bolstad, J. P., see Overskaug, K., 169
- Boreal forest, 299, 311, 699, 799
- Borges, Sérgio Henrique, and Philip C. Stouffer, Bird Communities in Two Types of Anthropogenic Successional Vegetation in Central Amazonia, 529
- Bottomland hardwood forest, 920
- Bowardi, M. A., see Combreau, O., 159
- Boylan, J. T., see Baker, M. C., 493
- Bozinovic, F., see López-Calleja, M. V., 705, and Meynard, C., 904
- Brachyramphus marmoratus*, 398, 671
- Brain, 710
- Brazil, 537
- Breeding Biology and Productivity of Florida's Crested Caracaras, by Joan L. Morrison, 505
- Breeding bird atlas, 472
Bird Survey, 50
density, 288
failure, 566
phenology, 907
- Breeding of the Gray-winged Trumpeter in French Guiana, by Pierre de Mercey and Marc Théry, 907
- Briefly Noted Book Reviews, by Kimberly G. Smith, 460
- Briskie, J. V., see Johnson, D. D. P., 848
- Bronson, C. L., see Pravosudov, V. V., 880
- Brood structure, 598
survival, 369
- Brown Thrasher Nest Reuse: A Time Saving Resource, Protection from Search-Strategy Predators, or Cues for Nest-Site Selection?, by John F. Cavitt, Aaron T. Pearce and Todd A. Miller, 859
- Brown, C. R., see Davis, J. A., 737
- Brown, Charles R., a review of *Host-Parasite Evolution: General Principles and Avian Models*, edited by Dale H. Clayton and Janice Moore, 456
- Brown, Charles R., and Mary Bomberger Brown, Fitness Components Associated with Laying Date in the Cliff Swallow, 230
- Brown, M. B., see Brown, C. R., 230
- Brown-headed Cowbird, 484, 729
- Brua, Robert B., Ruddy Duck Nesting Success: Do Nest Characteristics Deter Nest Predation?, 867
- Brunton, Dianne, "Optimal" Colony Size for Least Terns: An Inter-Colony Study of Opposing Selective Pressures by Predators, 607
- Bubo virginianus*, 331
- Burger, J., see Tspoura, N., 635
- Buteo swainsoni*, 557
- By-catch, 783

C

- Cabe, Paul R., Dispersal and Population Structure in the European Starling, 451
- Cairina moschata*, 710
- Calidris canutus*, 887
- California Gnatcatcher, 876
Quail, 678
- Callipepla californica*, 678
- Calonectris diomedea*, 174
- Canary Islands, 1
- Capelin, 566
- Capp, M. S., see Ammer, F. K., 686
- Capture-recapture, 589
- Carbon-13, 799

- Cardinalis cardinalis*, 255, 655
Carduelis flammea, 195
 Carolina Chickadee, 408, 880
 Carpenter, L. B., see Steenhof, K., 2
 Cavitt, John F., Aaron T. Pearse and Todd A. Miller, Brown Thrasher Nest Reuse: A Time Saving Resource, Protection from Search-Strategy Predators, or Cues for Nest-Site Selection?, 859
 Cavity nesting, 58
 roosting, 863
 Ceca, 622
 Cedrola, P. V., see Gandini, P. A., 783
 Cellulose, 622
 Censuses, 461
 Central Asia, 159
Cephus grylle, 589
Cerorhinca monocerata, 871
Certhia americana, 58
Chamaea fasciata, 288
 Charadrii, 461, 848
Charadrius alexandrinus, 157, 746
 CHD genes, 887
 Cherel, Y., see Tremblay, Y., 179
 Chesser, R. Terry, Molecular Systematics of the Rhinocryptid Genus *Pteroptochos*, 439
 Chicks, 360
 Chile, 439
 Chitin, 622
Chlamydotis undulata macqueenii, 159
 Christmas Shearwaters, 549
 Circadian Metabolic Responses to Food Deprivation in the Black-shouldered Kite, by Andrew E. McKechnie and Barry G. Lovegrove, 426
 Circannual rhythms, 347
Circus pygargus, 340
 Clark, R. G., see Guyn, K. L., 369
 Clegg, K. R., see Ellis, D. H., 664
 Cliff Swallow, 230
 Clotfelter, Ethan D., and Ken Yasukawa, Impact of Brood Parasitism by Brown-headed Cowbirds on Red-winged Blackbird Reproductive Success, 105
 Clotfelter, Ethan D., and Ken Yasukawa, The Effect of Aggregated Nesting on Red-winged Blackbird Nest Success and Brood Parasitism by Brown-headed Cowbirds, 729
 Clutch size, 1, 96, 876, 907
 Collins, Christine E., and Anne M. Houtman, Tan and White Color Morphs of White-throated Sparrows Differ In Their Non-song Vocal Responses to Territorial Intrusion, 842
 Colonial breeding, 607
 Coloniality, 340, 737
 Colony attendance, 149
 Color bands, 884
 Coloration, 655
 Combreaux, Olivier, Frederic Launay, Mohammed Al Bowardi and Boris Gubin, Outward Migration of Houbara Bustards From Two Breeding Areas in Kazakhstan, 159
 Common Amakihi, 21
 Eider, 598, 824
 Murre, 149
 Redpoll, 195
 Communal broods, 678
 feeding, 179
 Community convergence, 299
 structure, 299
 Competition, 402, 655
 Competition and Patterns of Resource Use By Two Sympatric Raptors, by Arnold T. Gerstell and James C. Bednarz, 557
 Conservation, 14
Conservation of Faunal Diversity in Forested Landscapes, edited by R. M. DeGraaf and R. I. Miller, reviewed by Thomas W. Sherry, 186
 Conservation Status and Habitat Preferences of the Cozumel Curassow, by Miguel Angel Martínez-Morales, 14
 Constant-effort mist-netting, 288
 Continental comparison, 299
 Cooke, F., see Beauchamp, W. D., 671
 Cooper's Hawk, 674
 Cooper, Robert J., R. Randy Wilson, Gary D. Zenitsky, Stephen J. Mullin, Jennifer A. DeCecco, Matthew R. Marshall, Dorothy J. Wolf and Lars Y. Pomara, Does Nonrandom Nest Placement Imply Nonrandom Nest Predation?—A Reply, 920
 Cooper, Sheldon J., The Thermal and Energetic Significance of Cavity Roosting in Mountain Chickadees and Juniper Titmice, 863
 Copulation, 518
 Copulatory Behavior of Semi-colonial Montagu's Harriers, by Beatriz E. Arroyo, 340
 Copulatory Behavior of the Bearded Vulture, by Joan Bertran and Antoni Margalida, 164
 Cory's Shearwater, 174
 Costs of Coloniality and the Effect of Colony Size on Reproductive Success in Purple Martins, by Jeffrey A. Davis and Charles R. Brown, 737
Coturnicops noveboracensis, 667
 Countersinging, 484
 Courtney, S., see Beauchamp, W. D., 671
 Courtship, 518
 Courtship feeding, 681
 Cozumel Curassow, 14
 Cracidae, 14
Crax rubra griseomi, 14
 Creching, 598
 Crested Auklet, 518
 Cristol, D. A., see Weiss, V. A., 884
 Cucco, Marco, and Giorgio Malacarne, Is the Song of Black Redstart Males an Honest Signal of Status?, 689
 Cultural evolution, 13
 transmission, 493
 Cyclic prey, 115
Cyclorhynchus psittacula, 518

D

- da Silva, Mónica Carneiro, and José Pedro Granadeiro, Genetic Variability and Isolation of Cory's Shearwater Colonies in the Northeast Atlantic, 174
 Davis, Jeffrey A., and Charles R. Brown, Costs of Coloniality and the Effect of Colony Size on Reproductive Success in Purple Martins, 737

- Davis, William E., a review of *The Bird Collectors*, by Barbara and Richard Mearns, 724
- De Leon, Manuel T., and Loren M. Smith, Behavior of Migrating Shorebirds at North Dakota Prairie Potholes, 645
- DeCecco, J. A., see Cooper, R. J., 920
- DeGolier, Teresa F., Sheila A. Mahoney and Gary E. Duke, Relationships of Avian Cecal Lengths to Food Habits, Taxonomic Position, and Intestinal Lengths, 622
- Delaney, David K., Teryl G. Grubb and Paul Beier, Activity Patterns of Nesting Mexican Spotted Owls, 42
- Delaware Bay, 635
- Delayed maturation, 689
- DeLong, John, and Stephen W. Hoffman, Differential Autumn Migration of Sharp-shinned and Cooper's Hawks in Western North America, 674
- Denali National Park, 115
- Dendroica chrysoparia*, 762
- nigrescens*, 67
- virens*, 262
- Desert birds, 714
- Desrochers, A., see Drolet, B., 699
- Development of Endothermy in American White Pelicans, by Christine L. Abraham and Roger M. Evans, 832
- Dhondt, A. A., see Hochachka, W. M., 195
- Dhondt, André A., a review of *Habitats for Birds in Europe: A Conservation Strategy for the Wider Environment*, compiled by Graham M. Tucker and Michael I. Evans, 724
- Dialects, 484
- Diamond, A. W., see Mawhinney, K., 824
- Dickinson, J. L., see Marks, J. S., 854
- Dieldrin, 331
- Diet, 635, 790, 806
- Diet selectivity, 246
- Dietary analysis, 898
- Differential Autumn Migration of Sharp-shinned and Cooper's Hawks in Western North America, by John DeLong and Stephen W. Hoffman, 674
- Digestive Enzymes of a Small Avian Herbivore, the Rufous-tailed Plantcutter, by Christine Meynard, M. Victoria López-Calleja, Francisco Bozinovic and Pablo Sabat, 904
- Diomedea exulans*, 360
- Disaccharidases, 904
- Discriminant analysis, 887
- Dispersal and Population Structure in the European Starling, by Paul R. Cabe, 451
- Distribution, 461
- Distribution, Abundance, and Habitat Characteristics of the Buff-breasted Flycatcher in Arizona, by John A. Martin and Michael L. Morrison, 272
- Distribution and Diurnal Behavior of Steller's Eiders Wintering on the Alaska Peninsula, by Murray K. Laubhan and Keith A. Metzner, 694
- Diving activity, 179
- DNA fingerprinting, 174, 854
- Do Black-throated Green Warblers Prefer Conifers? Meso- and Microhabitat Use in a Mixedwood Forest, by Isabelle Robichaud and Marc-André Villard, 262
- Does Nonrandom Nest Placement Imply Nonrandom Nest Predation?—A Reply, by Robert J. Cooper, R. Randy Wilson, Gary D. Zenitsky, Stephen J. Mullin, Jennifer A. DeCecco, Matthew R. Marshall, Dorothy J. Wolf and Lars Y. Pomara, 920
- Doherty, P. F., see Pravosudov, V. V., 880
- Dolby, A. S., see Pravosudov, V. V., 880
- Dolby, Andrew S., and Thomas C. Grubb Jr., Effects of Winter Weather on Horizontal and Vertical Use of Isolated Forest Fragments by Bark-foraging Birds, 408
- Dolichonyx oryzivorus*, 686
- Dominance, 655, 880
- Dougill, S., see Work, T. M., 21
- Downy Woodpecker, 408
- Doyle, T. J., see Klicka, J., 577
- Drolet, Bruno, André Desrochers and Marie-Josée Fortin, Effects of Landscape Structure on Nesting Songbird Distribution in a Harvested Boreal Forest, 699
- Duck, 422, 710
- Duckling survival, 369
- Ducklings, 824
- Dufty, Alfred M., and Annette Hanson, Vocal and Behavioral Responses of Brown-headed Cowbirds to Flight Whistles From Different Dialects, 484
- Duke, G. E., see DeGolier, T. F., 622
- Dune Larks, 432
- Dunn's Larks, 714

E

- Ecomorphology, 549
- Ectoparasitism, 230, 737
- Edge effects, 408, 867
- Effect of Aggregated Nesting on Red-winged Blackbird Nest Success and Brood Parasitism by Brown-headed Cowbirds, by Ethan D. Clotfelter and Ken Yasukawa, 729
- Effects of Electromagnetic Fields on Body Mass and Food-Intake of American Kestrels, by Kimberly J. Fernie and David M. Bird, 616
- Effects of Landscape Structure on Nesting Songbird Distribution in a Harvested Boreal Forest, by Bruno Drolet, André Desrochers and Marie-Josée Fortin, 699
- Effects of Selective Logging on a Bird Community in the Brazilian Atlantic Forest, by Alexandre Aleixo, 537
- Effects of Winter Weather on Horizontal and Vertical Use of Isolated Forest Fragments by Bark-foraging Birds, by Andrew S. Dolby and Thomas C. Grubb Jr., 408
- Egg laying, 124, 422
- neglect, 871
- predation, 871
- remains, 718
- El Niño, 205
- Electromagnetic fields, 616
- Ellis, David H., Kent R. Clegg, James C. Lewis and Errol Spaulding, Golden Eagle Predation on Experimental Sandhill and Whooping Cranes, 664
- Ely, Craig R., David H. Ward and Karen S. Bollinger, Behavioral Correlates of Heart Rates of Free-Living Greater White-fronted Geese, 390

- Emberiza alcoveri*, 1
Empidonax fulvifrons, 272
virescens, 916, 920
 Endangered species, 282, 762
 Energy metabolism, 863
 reserves, 880
 Escalona-Segura, G., see Rice, N. H., 446
 Esler, Daniel, Time of Day of Ovulation by Three Duck Species in Subarctic Alaska, 422
Eudypetes chrysocome, 179
 Eurasian Hobby Density, Nest Area Occupancy, Diet, and Productivity in Relation to Intensive Agriculture, by Fabrizio Sergio and Giuseppe Bogliani, 806
 European Starling, 124, 451
 Evans, R. M., see Abraham, C. L., 832
 Evaporative water loss, 714
 Evidence of Male-Bias in Capture Samples of Marbled Murrelets From Genetic Studies in British Columbia, by Brett A. Vanderkist, Xiao-Hua Xue, Richard Griffiths, Kathy Martin, Wendy Beauchamp and Tony D. Williams, 398
 Evidence Supporting the Recent Origin and Species Status of the Timberline Sparrow, by John Klicka, Robert M. Zink, Jon C. Barlow, W. Bruce McGillivray and Terry J. Doyle, 577
 Extinction, 1
 Extra-pair copulations, 340
- F**
- Faaborg, John, a review of *A Guide to the Birds of the West Indies*, by Herbert A. Raffaele, James W. Wiley, Orlando H. Garrido, Allan R. Keith, and Janis I. Raffaele, 457
 Facilitation of Sap-Feeding Birds by the White-fronted Woodpecker in the Monte Desert, Argentina, by Pedro G. Blendinger, 402
 Factors Affecting Prey Preparation by Adult Magpies Feeding Nestlings, by Adrián Ponz, José A. Gil-Delgado and Emilio Barba, 818
 Factors Affecting Survival of Northern Pintail Ducklings in Alberta, by Karla L. Guyn and Robert G. Clark, 369
 Facultative Communal Brood Rearing in California Quail, by Dale F. Lott and Sonke N. A. Mastrup, 678
Falco mexicanus, 2
 sparverius, 616
 subbuteo, 806
 Fat reserves, 880
 Fatness, 880
 Feathers, 799
 Feeding Behavior and Assimilation Efficiency of the Rufous-tailed Plantcutter: A Small Avian Herbivore, by M. Victoria López-Calleja and Francisco Bozinovic, 705
 Feeding ecology, 790
 Female Plumage Coloration in the Bluethroat: No Evidence for an Indicator of Maternal Quality, by Percy A. Rohde, Arild Johnsen and Jan T. Lifjeld, 96
 Fernie, Kimberly J., and David M. Bird, Effects of Electromagnetic Fields on Body Mass and Food-Intake of American Kestrels, 616
 Finch, D. M., see Kelly, J. F., 76
 Fish offal, 566
 Fitness, 678, 737
 Fitness Components Associated with Laying Date in the Cliff Swallow, by Charles R. Brown and Mary Bomberger Brown, 230
 Fledgling Behavior and Survival in Northern Tawny Owls, by Kristian Overskaug, Jan P. Bolstad, Peter Sunde and Ingar J. Øien, 169
 Flight, 390, 549
 Flight whistles, 484
 Flightlessness, 1
 Flint, Paul L., and J. Barry Grand, Incubation Behavior of Spectacled Eiders on the Yukon-Kuskokwim Delta, Alaska, 413
 Fluctuating Populations of House Wrens and Bewick's Wrens in Foothills of the Western Sierra Nevada of California, by Jared Verner and Kathryn L. Purcell, 219
 Foliage-gleaning bird, 299
 Food deprivation, 426
 habits, 622
 intake, 616
 patchiness, 179
 preferences, 705
 shortage, 566
 Foraging, 246
 behavior, 67, 762
 efficiency, 674
 Foraging Ecology and Diet Selectivity of Tree Swallows Feeding Nestlings, by John P. McCarty and David W. Winkler, 246
 Foraging Ecology of Cavity-Nesting Birds in Young Forests of the Northern Coast Range of Oregon, by Jennifer M. Weikel and John P. Hayes, 58
 Forest management, 311, 920
Forpus passerinus, 752
 Fortin, M., see Drolet, B., 699
 Fowlie, M. K., see Hatchwell, B. J., 681
 Fraga, R. M., see Amat, J. A., 157, and Amat, J. A., 746
 Frank, Rosemary A., and R. Scott Lutz, Productivity and Survival of Great Horned Owls Exposed to Dieldrin, 331
 Frederiksen, Morten, and Aevor Petersen, Adult Survival of the Black Guillemot in Iceland, 589
 Frequency and Function of Aquatic Courtship and Copulation in Least, Crested, Whiskered, and Parakeet Auklets, by F. M. Hunter and I. L. Jones, 518
 Frere, E., see Gandini, P. A., 783
Fringilla, 299
 Frugivory, 799
Fulica americana, 893
 Furness, R. W., see Thompson, D. R., 898
- G**
- Gallinula chloropus guami*, 282
 Gandini, Patricia A., Esteban Frere, Alejandro D. Pettovello and Paula V. Cedrola, Interaction Between Magellanic Penguins and Shrimp Fisheries in Patagonia, Argentina, 783
 Gene flow, 174
 Genetic Monogamy in Long-eared Owls, by Jeffrey S.

- Marks, Janis L. Dickinson and Joseph Haydock, 854
- Genetic Variability and Isolation of Cory's Shearwater Colonies in the Northeast Atlantic, by Mónica Carneiro da Silva and José Pedro Granadeiro, 174
- Gerstell, Arnold T., and James C. Bednarz, Competition and Patterns of Resource Use By Two Sympatric Raptors, 557
- Geupel, G. R., see Silkey, M., 288
- Gil-Delgado, J. A., see Ponz, A., 818
- Gille, Uwe, and Franz-Viktor Salomon, Growth of Duck Bills, 710
- Golden Eagle, 115
- Golden Eagle Predation on Experimental Sandhill and Whooping Cranes, by David H. Ellis, Kent R. Clegg, James C. Lewis and Errol Spaulding, 664
- Golfo San Jorge, 783
- Granadeiro, J. P., see da, M. C., 174
- Grand, J. B., see Flint, P. L., 413
- Grassland birds, 771
- Great Black-backed Gulls, 824
- Great Horned Owls, 331
- Greater White-fronted Geese, 390
- Green-rumped Parrotlet, 752
- Greenberg, Russell, Vladimir Pravosudov, John Sterling, Anna Kozlenko and Vitaly Kontorshchikov, Tits, Warblers, and Finches: Foliage-gleaning Birds of Neartic and Palearctic Boreal Forests, 299
- Greenslade, A. D., see Baker, A. J., 887
- Grenier, J. Letitia, and Steven R. Beissinger, Variation in the Onset of Incubation in a Neotropical Parrot, 752
- Griffiths, R., see Vanderkist, B. A., 398
- Growth curve, 710
 pattern, 360
 rates, 360
- Growth of Duck Bills, by Uwe Gille and Franz-Viktor Salomon, 710
- Grubb, T. C., see Delaney, D. K., 42; Dolby, A. S., 408; and Pravosudov, V. V., 880
- Grus americana*, 664
canadensis, 664
- Guam, 282
- Gubin, B., see Combreau, O., 159
- Guide to the Birds of India, Pakistan, Nepal, Bangladesh, Bhutan, Sri Lanka, and the Maldives*, by Richard Grimmett, Carol Inskipp, and Tim Inskipp, reviewed by Ragupathy Kannan and D. P. Wijesinghe, 927
- Guide to the Birds of the West Indies*, by Herbert A. Raffaele, James W. Wiley, Orlando H. Garrido, Allan R. Keith, and Janis I. Raffaele, reviewed by John Faaborg, 457
- Gulf Coast, 76
- Gull depredation, 824
- Gut sampling, 635
- Gutiérrez, R. J., see LaHaye, W. S., 324
- Gutzwiller, Kevin J., and Stanley H. Anderson, Spatial Extent of Human-Intrusion Effects on Subalpine Bird Distributions, 378
- Guyn, Karla L., and Robert G. Clark, Factors Affecting Survival of Northern Pintail Ducklings in Alberta, 369
- Gwinner, Eberhard, and Alexander Scheuerlein, Photoperiodic Responsiveness of Equatorial and Temperate-zone Stonechats, 347

H

- Habitat, 2
 fragmentation, 408
 selection, 58, 566
 use, 67, 169, 282, 762
- Habitat Associations of Migrating and Overwintering Grassland Birds in Southern Texas, by Lawrence D. Igl and Bart M. Ballard, 771
- Habitat Selection and Reproductive Performance of Food-stressed Herring Gulls, by Michael S. Rodway and Heidi M. Regehr, 566
- Habitats for Birds in Europe: A Conservation Strategy for the Wider Environment*, compiled by Graham M. Tucker and Michael I. Evans, reviewed by André A. Dhondt, 724
- Hahn, T. P., see Harbison, H., 13
- Hairy Woodpecker, 86
- Hanson, A., see Dufty, A. M., 484
- Harbison, Heidi, Douglas A. Nelson and Thomas P. Hahn, Long-Term Persistence of Song Dialects in the Mountain White-crowned Sparrow, 13
- Harris' Hawks, 557
- Hatching date, 369
 patterns, 752
 success, 752
- Hatchwell, B. J., M. K. Fowle, D. J. Ross and A. F. Russell, Incubation Behavior of Long-tailed Tits: Why Do Males Provision Incubating Females?, 681
- Haydock, J., see Marks, J. S., 854
- Hayes, J. P., see Weikel, J. M., 58
- Heartrate, 390
- Heat Production and Evaporative Water Loss of Dune Larks from the Namib Desert, by Jos. B. Williams, 432
- Heat transfer coefficient, 432
- Hemignathus virens*, 21
- Hepp, G., see McKnight, S. K., 893
- Herbivore, 705
- Herbivory, 904
- Herring Gull, 566
- Hertel, Fritz, and Lisa T. Ballance, Wing Ecomorphology of Seabirds from Johnston Atoll, 549
- Hobson, Keith A., Stable-Carbon and Nitrogen Isotope Ratios of Songbird Feathers Grown in Two Terrestrial Biomes: Implications for Evaluating Trophic Relationships and Breeding Origins, 799
- Hochachka, Wesley M., Jeffrey V. Wells, Kenneth V. Rosenberg, Diane L. Tessaglia-Hymes and André A. Dhondt, Irruptive Migration of Common Redpolls, 195
- Hoffman, S. W., see DeLong, J., 674
- Hogan, H. A., see Thompson, I. D., 311
- Hoopoe Lark, 714
- Hornbills*, by Alan Kemp, reviewed by Ragupathy Kannan and Douglas A. James, 458
- Horseshoe crabs, 635

Host-Parasite Evolution: General Principles and Avian Models, edited by Dale H. Clayton and Janice Moore, reviewed by Charles R. Brown, 456
 Houbara Bustard, 159
 House Wren, 219
 Houtman, A. M., see Collins, C. E., 842
 Huet-huet, 439
 Huin, N., see Berrow, S. D., 360
 Human disturbance, 529
 intrusion, 378
 Humpidge, R., see Berrow, S. D., 360
 Hunter, F. M., and I. L. Jones, The Frequency and Function of Aquatic Courtship and Copulation in Least, Crested, Whiskered, and Parakeet Auklets, 518
 Hunting, 14
 Hybrid unfitness, 493
 Hybridization, 493

I

Icelandic seabirds, 898
 Ideal free distribution, 566, 737
 Igl, Lawrence D., and Bart M. Ballard, Habitat Associations of Migrating and Overwintering Grassland Birds in Southern Texas, 771
 Impact of Brood Parasitism by Brown-headed Cowbirds on Red-winged Blackbird Reproductive Success, by Ethan D. Clotfelter and Ken Yasukawa, 105
 Incubation Behavior of Long-tailed Tits: Why Do Males Provision Incubating Females?, by B. J. Hatchwell, M. K. Fowlie, D. J. Ross and A. F. Russell, 681
 Incubation Behavior of Northern Shovelers in the Subarctic: A Contrast to the Prairies, by Margaret C. MacCluskie and James S. Sedinger, 417
 Incubation Behavior of Spectacled Eiders on the Yukon-Kuskokwim Delta, Alaska, by Paul L. Flint and J. Barry Grand, 413
 Incubation constancy, 413, 417
 patterns, 752
 period, 752
 Indigo Bunting, 493
 Individual optimization, 413
 Influence of Summer Biogeography on Wood Warbler Stopover Abundance, by Jeffrey F. Kelly, Rob Smith, Deborah M. Finch, Frank R. Moore and Wang Yong, 76
 Insect sampling, 246
 Insectivorous birds, 529
 Interaction Between Magellanic Penguins and Shrimp Fisheries in Patagonia, Argentina, by Patricia A. Gandini, Esteban Frere, Alejandro D. Pettovello and Paula V. Cedrola, 783
 Intestinal lengths, 622
 Irruptive Migration of Common Redpolls, by Wesley M. Hochachka, Jeffrey V. Wells, Kenneth V. Rosenberg, Diane L. Tessaglia-Hymes and André A. Dhondt, 195
 Is Red Coloration of Male Northern Cardinals Beneficial During the Nonbreeding Season?: A Test of Status Signaling, by L. LaReesa Wolfenbarger, 655
 Is the Song of Black Redstart Males an Honest Signal

of Status?, by Marco Cucco and Giorgio Malacarne, 689
 Island populations, 174
 Isotonic regression, 876
 Izembek Lagoon, 694

J

James, D. A., see Kannan, R., 458
 Japanese White-eye, 21
 Johnsen, A., see Rohde, P. A., 96
 Johnson, Dominic D. P., and James V. Briskie, Sperm Competition and Sperm Length in Shorebirds, 848
 Johnson, L., see Work, T. M., 21
 Jones, I. L., see Hunter, F. M., 518
 Juniper Titmouse, 863

K

Kannan, Ragupathy, and D. P. Wijesinghe, a review of *A Guide to the Birds of India, Pakistan, Nepal, Bangladesh, Bhutan, Sri Lanka, and the Maldives*, by Richard Grimmett, Carol Inskipp, and Tim Inskipp, 927
 Kannan, Ragupathy, and Douglas A. James, a review of *The Hornbills*, by Alan Kemp, 458
 Keane, John J., and Michael L. Morrison, Temporal Variation in Resource Use by Black-throated Gray Warblers, 67
 Keen's mouse, 871
 Keller, Cherry M. E., and Jacqueline T. Scallan, Potential Roadside Biases Due to Habitat Changes Along Breeding Bird Survey Routes, 50
 Kelly, Jeffrey F., Rob Smith, Deborah M. Finch, Frank R. Moore and Wang Yong, Influence of Summer Biogeography on Wood Warbler Stopover Abundance, 76
 Kelp Gull, 790
 Kentish Plover, 157, 746
 King, D. I., see Rappole, J. H., 762
 Kjølmyr, J. E., see Page, G. W., 461
 Klicka, John, Robert M. Zink, Jon C. Barlow, W. Bruce McGillivray and Terry J. Doyle, Evidence Supporting the Recent Origin and Species Status of the Timberline Sparrow, 577
 Kochert, M. N., see Steenhof, K., 2
 Kontorshchikov, V., see Greenberg, R., 299
 Kozlenko, A., see Greenberg, R., 299

L

LaHaye, William S., and R. J. Gutiérrez, Nest Sites and Nesting Habitat of the Northern Spotted Owl in Northwestern California, 324
 Land uses, 2
 Langer, U., see Meijer, T., 124
 Laporte, P., see Robert, M., 667
 Laridae, 549
 Larivière, Serge, Reasons Why Predators Cannot Be Inferred From Nest Remains, 718
 Larks, 714

- Larus argentatus*, 566
dominicanus, 790
marinus, 824
 Late Pleistocene speciation, 577
 Late Tertiary Woodcock From Menorca, Balearic Islands, Western Mediterranean, by Bartomeu Seguí, 909
 Laubhan, Murray K., and Keith A. Metzner, Distribution and Diurnal Behavior of Steller's Eiders Wintering on the Alaska Peninsula, 694
 Launay, F., see Combreau, O., 159
 Laying date, 230, 746
 Lazuli Bunting, 493
 Least Auklet, 518
 Sandpiper, 645
 Terns, 607
 Leg bands, 884
 Lehman, R. N., see Steenhof, K., 2
 Lesser Scaup, 422
 Lewis, J. C., see Ellis, D. H., 664
 Lifjeld, J. T., see Rohde, P. A., 96
 Lilliendahl, K., see Thompson, D. R., 898
 Lizard Burrows Provide Thermal Refugia for Larks in the Arabian Desert, by Joseph B. Williams, B. Irene Tieleman and Mohammed Shobrak, 714
 Lone tending, 598
 Long-billed Dowitcher, 645
 Long-eared Owl, 854
 Long-legged Bunting, 1
 Long-tailed Tit, 681
 Long-Term Persistence of Song Dialects in the Mountain White-crowned Sparrow, by Heidi Harbison, Douglas A. Nelson and Thomas P. Hahn, 13
 Long-Term Prairie Falcon Population Changes in Relation to Prey Abundance, Weather, Land Uses, and Habitat Conditions, by Karen Steenhof, Michael N. Kochert, Leslie B. Carpenter and Robert N. Lehman, 28
 Lott, Dale F., and Sonke N. A. Mastrup, Facultative Communal Brood Rearing in California Quail, 678
 Lougheed, C., see Beauchamp, W. D., 671
 Lougheed, L. W., see Beauchamp, W. D., 671
 Lovegrove, B. G., see McKechnie, A. E., 426
 Lutz, R. S., see Frank, R. A., 331
 López, M., see Rando, J. C., 1
 López-Calleja, M. V., see Meynard, C., 904
 López-Calleja, M. Victoria, and Francisco Bozinovic, Feeding Behavior and Assimilation Efficiency of the Rufous-tailed Plantcutter: A Small Avian Herbivore, 705
- M**
- MacCluskie, Margaret C., and James S. Sedinger, Incubation Behavior of Northern Shovelers in the Subarctic: A Contrast to the Prairies, 417
 Magellanic Penguins, 783
 Magpies, 818
 Mahoney, S. A., see DeGolier, T. F., 622
 Malacarne, G., see Cucco, M., 689
 Mallard, 710
 Marbled Murrelet, 398, 671
 Margalida, A., see Bertran, J., 164
 Mariana Common Moorhen, 282
 Marks, Jeffrey S., Janis L. Dickinson and Joseph Haydock, Genetic Monogamy in Long-eared Owls, 854
 Marshall, M. R., see Cooper, R. J., 920
 Martin, John A., and Michael L. Morrison, Distribution, Abundance, and Habitat Characteristics of the Buff-breasted Flycatcher in Arizona, 272
 Martin, K., see Vanderkist, B. A., 398
 Martínez-Morales, Miguel Angel, Conservation Status and Habitat Preferences of the Cozumel Curassow, 14
 Mass, 635
 Massey, J. G., see Work, T. M., 21
 Mastrup, S. N. A., see Lott, D. F., 678
 Mate choice, 686
 Mate-guarding, 737
 Mating systems, 848
 Maurer, Brian A., a review of *Population Limitation in Birds*, by Ian Newton, 926
 Mawhinney, K., and A. W. Diamond, Using Radio-Transmitters to Improve Estimates of Gull Predation on Common Eider Ducklings, 824
 McCarty, John P., and David W. Winkler, Foraging Ecology and Diet Selectivity of Tree Swallows Feeding Nestlings, 246
 McGillivray, W. B., see Klicka, J., 577
 McIntyre, Carol L., and Layne G. Adams, Reproductive Characteristics of Migratory Golden Eagles in Denali National Park, Alaska, 115
 McKechnie, Andrew E., and Barry G. Lovegrove, Circadian Metabolic Responses to Food Deprivation in the Black-shouldered Kite, 426
 McKnight, S. Keith, and Gary Hepp, Molt Chronology of American Coots in Winter, 893
 Meijer, Theo, U. Nienaber, U. Langer and F. Trillmich, Temperature and Timing of Egg-Laying of European Starlings, 124
Melanerpes cactorum, 402
 Melman, David S., and William A. Searcy, Microgeographic Song Discrimination in a Nonterritorial Passerine, the Boat-tailed Grackle, 845
Melospiza melodia, 288
 Menorca, 909
 Mercey, Pierre de, and Marc Théry, Breeding of the Gray-winged Trumpeter in French Guiana, 907
 Metabolic depression, 426
 Metabolism, 616
 Metzner, K. A., see Laubhan, M. K., 694
 Mexican Spotted Owl, 42
 Meynard, Christine, M. Victoria López-Calleja, Francisco Bozinovic and Pablo Sabat, Digestive Enzymes of a Small Avian Herbivore, the Rufous-tailed Plantcutter, 904
Miafra erythrocephalus, 432
 Microgeographic Song Discrimination in a Nonterritorial Passerine, the Boat-tailed Grackle, by David S. Melman and William A. Searcy, 845
 Microhabitat, 262
 Middle Rio Grande Valley, 76
 Migration, 76, 159, 635, 671, 771, 799
 Migration Routes of Sooty Shearwaters in the Pacific Ocean, by Larry B. Spear and David G. Ainley, 205

- Miller, Edward H., Eric L. Walters and Henri Ouellet, Plumage, Size, and Sexual Dimorphism in the Queen Charlotte Islands Hairy Woodpecker, 86
- Miller, Mark W., Relative Effects of Plumage Coloration and Vegetation Density on Nest Success, 255
- Miller, T. A., see Cavitt, J. F., 859
- Missouri Breeding Bird Atlas 1986–1992, by Brad Jacobs and James D. Wilson, reviewed by Keith A. Arnold, 725
- Mixed-species flocks, 529
- Mixing model, 898
- Molecular sexing, 887
- Molecular Systematics of the Rhinocryptid Genus *Pteroptochos*, by R. Terry Chesser, 439
- Molecular vs. Phenotypic Sexing in Red Knots, by Allan J. Baker, Theunis Piersma and Annette D. Greenslade, 887
- Molothrus ater*, 484, 729
- Molt, 616
- Molt Chronology of American Coots in Winter, by S. Keith McKnight and Gary Hepp, 893
- Montagu's Harrier, 340
- Monte Desert, 402
- Montevocchi, W. A., see Thompson, I. D., 311
- Moore, F. R., see Kelly, J. F., 76
- Morphometric analysis, 577
- Morphometrics, 887
- Morrison, Joan L., Breeding Biology and Productivity of Florida's Crested Caracaras, 505
- Morrison, M. L., see Keane, J. J., 67; and Martin, J. A., 272
- Mortality, 169
- Mountain Chickadee, 863
- mtDNA sequence, 446, 577
- Munias and Mannikins*, by Robin Restall, reviewed by Michael L. Avery, 188
- Murray, A. W. A., see Berrow, S. D., 360
- Muscovy Ducks, 710
- N**
- Namib Desert, 432
- Nannus*, 446
- Nearest neighbor, 729
- Nectarivory, 799
- Nelson, D. A., see Harbison, H., 13
- Neotropical migrant, 67, 762
- Nest area occupation rate, 806
- Nest attentiveness, 42, 413, 417
- dispersion, 806
- mortality, 916, 920
- predation, 718
- remains, 718
- reuse, 859
- sites, 157, 324
- site selection, 859
- site use, 867
- success, 729, 867
- tree selection, 916, 920
- Nest Placement and Mortality: Is Nest Predation a Random Event in Space and Time?, by Kenneth A. Schmidt and Christopher J. Whelan, 916
- Nest Sites and Nesting Habitat of the Northern Spotted Owl in Northwestern California, by William S. LaHaye and R. J. Gutiérrez, 324
- Nesting behavior, 42
- cover, 746
- density, 607
- habitat, 324
- success, 157
- synchrony, 607, 729
- Nestling diet, 818
- New Species of Extinct Flightless Passerine (Emberizidae: *Emberiza*) from the Canary Islands, by J. C. Rando, M. López and B. Seguí, 1
- Newfoundland, 311
- Nielsen, B., see Bensch, S., 153
- Nienaber, U., see Meijer, T., 124
- Nitrogen-15, 799
- Nonbreeding season, 771
- Northern Cardinal, 255, 655
- Pintail, 369, 422
- Shoveler, 417
- Spotted Owl, 324
- Nothofagus* forest, 439
- Numbers and Movements of Yellow Rails Along the St. Lawrence River, Quebec, by Michel Robert and Pierre Laporte, 667
- Nur, N., see Silkey, M., 288
- Nutrient requirements, 893
- Nutritional constraints, 876
- ecology, 705
- Nycticorax nycticorax*, 607
- O**
- O'Connor, Raymond J., a review of *Avian Growth and Development: Evolution Within the Atricial-Precocial Spectrum*, edited by J. Mattias Starck and Robert E. Ricklefs, 722
- Ocean warming, 205
- Øien, I. J., see Overskaug, K., 169
- Old growth, 311
- conifer forests, 324
- Old nests, 859
- Oligopeptidase, 904
- Onset of incubation, 752
- "Optimal" Colony Size for Least Terns: An Inter-Colony Study of Opposing Selective Pressures by Predators, by Dianne Brunton, 607
- Organochlorines, 331
- Ouellet, H., see Miller, E. H., 86
- Öst, Markus, Within-Season and Between-Year Variation in the Structure of Common Eider Broods, 598
- Outward Migration of Houbara Bustards From Two Breeding Areas in Kazakhstan, by Olivier Combreau, Frederic Launay, Mohammed Al Bowardi and Boris Gubin, 159
- Overskaug, Kristian, Jan P. Bolstad, Peter Sunde and Ingar J. Øien, Fledgling Behavior and Survival in Northern Tawny Owls, 169
- Overton, Lowell, a review of *Avian Biochemistry and Molecular Biology*, by Lewis Stevens, 190
- Overview of Shorebird Abundance and Distribution in Wetlands of the Pacific Coast of the Contiguous United States, by Gary W. Page, Lynne E. Stenzel and Janet E. Kjelson, 461

Overwintering, 771
Ovulation time, 422
Oxyura jamaicensis, 867

P

Pacific Coast, 461
 Northwest, 86
 Ocean, 205
Page, Gary W., Lynne E. Stenzel and Janet E. Kjelmlyr, Overview of Shorebird Abundance and Distribution in Wetlands of the Pacific Coast of the Contiguous United States, 461
Paleontology, 1, 909
Parabuteo unicinctus, 557
Parakeet Auklet, 518
Parental attendance, 149
Parmelee, David F., a review of *Skuas and Jaegers: A Guide to the Skuas and Jaegers of the World*, by Klaus Malling Olsen and Hans Larsson, 187
Parulidae, 76
Passeriformes, 1
Passerina amoena, 493
 cyanea, 493
Patagonia, 783, 790
Patten, Michael A., and John T. Rotenberry, The Proximate Effects of Rainfall on Clutch Size of the California Gnatcatcher, 876
Pearse, A. T., see Cavitt, J. F., 859
Pekin Ducks, 710
Permanent residents, 408
Peromyscus, 871
Petersen, A., see Frederiksen, M., 589
Peterson, A. T., see Rice, N. H., 446
Petrochelidon pyrrhonota, 230
Pettovello, A. D., see Gandini, P. A., 783
Phaethontidae, 549
Phillips, R. A., see Thompson, D. R., 898
Phoenicurus ochruros, 689
Photoperiodic Responsiveness of Equatorial and Temperate-zone Stonechats, by Eberhard Gwinner and Alexander Scheuerlein, 347
Phylogenetic Patterns in Montane *Troglodytes* Wrens, by Nathan H. Rice, A. Townsend Peterson and Griselda Escalona-Segura, 446
Phylogenetics, 439
Phylogeny, 446
Phylogeography, 577
Phytotoma rara, 705, 904
Piatt, J. F., see Van, T. I., 395, and Zador, S. G., 149
Pica pica, 818
Picoides pubescens, 408
 villosus, 58, 86
Piersma, T., see Baker, A. J., 887
Pipilo maculatus, 288
Plastic Color Bands Have No Detectable Short-term Effects on White-breasted Nuthatch Behavior, by Valerie A. Weiss and Daniel A. Cristol, 884
Playback, 484, 842
Plumage, 887
Plumage, Size, and Sexual Dimorphism in the Queen Charlotte Islands Hairy Woodpecker, by Edward H. Miller, Eric L. Walters and Henri Ouellet, 86

Poecile carolinensis, 408, 880
 gambeli, 863
 rufescens, 58
Point counts, 537
Polioptila californica, 876
Polysticta stelleri, 694
Pomara, L. Y., see Cooper, R. J., 920
Ponz, Adrián, José A. Gil-Delgado and Emilio Barba, Factors Affecting Prey Preparation by Adult Magpies Feeding Nestlings, 818
Population distribution, 694
Population Limitation in Birds, by Ian Newton, reviewed by Brian A. Maurer, 926
Population movements, 671
 sizes, 461
 structure, 451
 trends, 219, 288
Potential Roadside Biases Due to Habitat Changes Along Breeding Bird Survey Routes, by Cherry M. E. Keller and Jacqueline T. Scallan, 50
Prairie Falcon, 2
Prairie Pothole Region, 645
Pravosudov, V., see Greenberg, R., 299
Pravosudov, Vladimir V., Thomas C. Grubb Jr., Paul F. Doherty Jr., C. L. Bronson, Elena V. Pravosudova and Andrew S. Dolby, Social Dominance and Energy Reserves in Wintering Woodland Birds, 880
Pravosudova, E. V., see Pravosudov, V. V., 880
Predation, 607, 664, 867
Predation on Rhinoceros Auklet Eggs by a Native Population of *Peromyscus*, by Louise K. Blight, John L. Ryder and Douglas F. Bertram, 871
Predator identification, 718
Predictive Model of Wetland Habitat Use on Guam by Endangered Mariana Common Moorhens, by Michael W. Ritter and Julie A. Savidge, 282
Prey delivery rates, 42
Prey preparation, 818
Primaries, 360
Prince, P. A., see Berrow, S. D., 360
Procellariidae, 549
Procellariiform genetic diversity, 174
Productivity, 806
Productivity and Survival of Great Horned Owls Exposed to Dieldrin, by Rosemary A. Frank and R. Scott Lutz, 331
Project FeederWatch, 195
Proximate Effects of Rainfall on Clutch Size of the California Gnatcatcher, by Michael A. Patten and John T. Rotenberry, 876
Pteroptochos, 439
Puffinus griseus, 205
Purcell, K. L., see Verner, J., 219

Q

Queen Charlotte Islands, 86
Quiscalus major, 845

R

Rainfall, 876
Ralph, C. J., see Beauchamp, W. D., 671
Rando, J. C., M. López and B. Seguí, A New Species of Extinct Flightless Passerine (Emberizidae: *Emberiza*) from the Canary Islands, 1

- Rappole, John H., David I. King and Wylie C. Barrow Jr., Winter Ecology of the Endangered Golden-cheeked Warbler, 762
- Raptors, 557
- Reasons Why Predators Cannot Be Inferred From Nest Remains, by Serge Larivière, 718
- Red Knots, 635, 887
- Red-tailed Tropicbirds, 549
- Red-winged Blackbird, 1, 729
- Refractoriness, 347
- Regehr, H. M., see Rodway, M. S., 566
- Relationships of Avian Cecal Lengths to Food Habits, Taxonomic Position, and Intestinal Lengths, by Teresa F. DeGoliér, Sheila A. Mahoney and Gary E. Duke, 622
- Relative Effects of Plumage Coloration and Vegetation Density on Nest Success, by Mark W. Miller, 255
- Renesting, 746
- Repertoire, 686
- Replacement Clutches by Kentish Plovers, by Juan A. Amat, Rosendo M. Fraga and Gonzalo M. Arroyo, 746
- Reproductive Characteristics of Migratory Golden Eagles in Denali National Park, Alaska, by Carol L. McIntyre and Layne G. Adams, 115
- Reproductive success, 230
- Resource use, 67
- Reuse of Nesting Scrapes by Kentish Plovers, by Juan A. Amat, Rosendo M. Fraga and Gonzalo M. Arroyo, 157
- Rhinoceros Auklet, 871
- Rhoads, Douglas D., a review of *Avian Molecular Evolution and Systematics*, edited by David P. Mindell, 189
- Rice, Nathan H., A. Townsend Peterson and Griselda Escalona-Segura, Phylogenetic Patterns in Montane *Troglodytes* Wrens, 446
- Ritter, Michael W., and Julie A. Savidge, A Predictive Model of Wetland Habitat Use on Guam by Endangered Mariana Common Moorhens, 282
- Robert, Michel, and Pierre Laporte, Numbers and Movements of Yellow Rails Along the St. Lawrence River, Quebec, 667
- Robichaud, Isabelle, and Marc-André Villard, Do Black-throated Green Warblers Prefer Conifers? Meso- and Microhabitat Use in a Mixedwood Forest, 262
- Rockhopper Penguins, 179
- Rodway, Michael S., and Heidi M. Regehr, Habitat Selection and Reproductive Performance of Food-stressed Herring Gulls, 566
- Rohde, Percy A., Arild Johnsen and Jan T. Lifjeld, Female Plumage Coloration in the Bluethroat: No Evidence for an Indicator of Maternal Quality, 96
- Rosenberg, K. V., see Hochachka, W. M., 195
- Ross, D. J., see Hatchwell, B. J., 681
- Rotenberry, J. T., see Patten, M. A., 876
- Ruddy Duck Nesting Success: Do Nest Characteristics Deter Nest Predation?, by Robert B. Brua, 867
- Ruddy Turnstones, 635
- Rufous-tailed Plantcutter, 705, 904
- Russell, A. F., see Hatchwell, B. J., 681
- Ryder, J. L., see Blight, L. K., 871
- S**
- Sabat, P., see Meynard, C., 904
- Salomon, F., see Gille, U., 710
- Sanderling, 635
- Sandhill Crane, 664
- Satellite tracking, 159
- Savidge, J. A., see Ritter, M. W., 282
- Saxicola torquata*, 347
- Scallan, J. T., see Keller, C. M. E., 50
- Scheuerlein, A., see Gwinner, E., 347
- Schmidt, Kenneth A., and Christopher J. Whelan, Nest Placement and Mortality: Is Nest Predation a Random Event in Space and Time?, 916
- Scelopax carmesinae*, 909
- Seabird diet, 783
- Seabirds, 549
- Searcy, W. A., see Melman, D. S., 845
- Seasonal Movements of Marbled Murrelets: Evidence From Banded Birds, by Wendy D. Beauchamp, Fred Cooke, Cecilia Loughheed, Lynn W. Loughheed, C. John Ralph and Stephen Courtney, 671
- Secondary forest birds, 529
- Sedinger, J. S., see MacCluskie, M. C., 417
- Seguí, B., see Rando, J. C., 1
- Seguí, Bartomeu, A Late Tertiary Woodcock From Menorca, Balearic Islands, Western Mediterranean, 909
- Selective logging, 537
- Semipalmated Sandpiper, 635, 645
- Sergio, Fabrizio, and Giuseppe Bogliani, Eurasian Hobby Density, Nest Area Occupancy, Diet, and Productivity in Relation to Intensive Agriculture, 806
- Sex ratio, 398
- Sexual dimorphism, 86, 655
selection, 518, 686
- Sharp-shinned Hawk, 674
- Sherry, Thomas W., a review of *Conservation of Faunal Diversity in Forested Landscapes*, edited by R. M. DeGraaf and R. I. Miller, 186
- Shobrak, M., see Williams, J. B., 714
- Shorebird Diet During Spring Migration Stopover on Delaware Bay, by Nellie Tsipoura and Joanna Burger, 635
- Shorebirds, 461, 645
- Shrimp fishery, 783
- Silkey, Mariabeth, Nadav Nur and Geoffrey R. Geupel, The Use of Mist-net Capture Rates to Monitor Annual Variation in Abundance: A Validation Study, 288
- Singing Behavior, Mating Associations, and Reproductive Success in a Population of Hybridizing Lazuli and Indigo Buntings, by Myron C. Baker and Jeanette T. Boylan, 493
- Sitta canadensis*, 58
carolinensis, 408, 880, 884
- Skuas and Jaegers: A Guide to the Skuas and Jaegers of the World*, by Klaus Malling Olsen and Hans Larsson, reviewed by David F. Parmelee, 187
- Smith, Kimberly G., Briefly Noted Book Reviews, 460
- Smith, L. M., see De, M. T., 645
- Smith, R., see Kelly, J. F., 76
- Social Dominance and Energy Reserves in Wintering

- Woodland Birds, by Vladimir V. Pravosudov, Thomas C. Grubb Jr., Paul F. Doherty Jr., C. L. Bronson, Elena V. Pravosudova and Andrew S. Dolby, 880
- Social Influences on Vocal Development*, edited by Charles T. Snowdon and Martine Hausberger, reviewed by Hans-Joachim Bischof, 455
- Solmundsson, J., see Thompson, D. R., 898
- Somateria fischeri*, 413
mollissima, 598, 824
- Song dialects, 13
 discrimination, 845
- Song Sparrow, 288
- Song Versatility and Social Context in the Bobolink, by Frank K. Ammer and Michael S. Capp, 686
- Sooty Shearwater, 205
- Spain, 818
- Spatial and Temporal Patterns in the Diet of the Kelp Gull in Patagonia, by Marcelo Bertellotti and Pablo Yorio, 790
- Spatial distributions, 378
- Spatial Extent of Human-Intrusion Effects on Subalpine Bird Distributions, by Kevin J. Gutzwiller and Stanley H. Anderson, 378
- Spaulding, E., see Ellis, D. H., 664
- Spear, Larry B., and David G. Ainley, Migration Routes of Sooty Shearwaters in the Pacific Ocean, 205
- Species limits, 439, 577
 richness, 311
- Spectacled Eider, 413
- Sperm competition, 518, 848
 morphology, 848
- Sperm Competition and Sexual Selection*, edited by T. R. Birkhead and A. P. Møller, reviewed by David F. Westneat, 924
- Sperm Competition and Sperm Length in Shorebirds, by Dominic D. P. Johnson and James V. Briskie, 848
- Spheniscus magellanicus*, 783
- Spizella arborea*, 195
breweri, 577
taverneri, 577
- Spotted Towhee, 288
- Stable isotopes, 898
- Stable-Carbon and Nitrogen Isotope Ratios of Songbird Feathers Grown in Two Terrestrial Biomes: Implications for Evaluating Trophic Relationships and Breeding Origins, by Keith A. Hobson, 799
- Steadman, David W., a review of *The Birds of St. Helena*, by Beau W. Rowlands, Trevor Trueman, Storrs L. Olson, M. Neil McCulloch, and Richard K. Brooke, 928
- Steenhof, Karen, Michael N. Kochert, Leslie B. Carpenter and Robert N. Lehman, Long-Term Prairie Falcon Population Changes in Relation to Prey Abundance, Weather, Land Uses, and Habitat Conditions, 21
- Steller's Eiders, 694
- Stenzel, L. E., see Page, G. W., 461
- Sterling, J., see Greenberg, R., 299
- Sterna antillarum*, 607
- Stilt Sandpiper, 645
- Stonechats, 347
- Stopover, 76, 771
- Stouffer, P. C., see Borges, S. H., 529
- Strix aluco*, 169
occidentalis caurina, 324
occidentalis lucida, 42
- Sturnus vulgaris*, 124, 451
- Subalpine forest, 378
- Sulidae, 549
- Sunde, P., see Overskaug, K., 169
- Survival, 230, 331
- Survival and Physiologic Response of Common Amakihi and Japanese White-eyes During Simulated Translocation, by Thierry M. Work, J. Gregory Massey, Luanne Johnson, Steve Dougill and Paul C. Banko, 21
- Swainson's Hawks, 557
- Synchronous diving, 179
- Synchronous Underwater Foraging Behavior in Penguins, by Yann Tremblay and Yves Cherel, 179

T

- Tachycineta bicolor*, 246
- Tan and White Color Morphs of White-throated Sparrows Differ In Their Non-song Vocal Responses to Territorial Intrusion, by Christine E. Collins and Anne M. Houtman, 842
- Tawny Owl, 169
- Taxonomy, 622
- Temperature and Timing of Egg-Laying of European Starlings, by Theo Meijer, U. Nienaber, U. Langer and F. Trillmich, 124
- Temporal Variation in Resource Use by Black-throated Gray Warblers, by John J. Keane and Michael L. Morrison, 67
- Territoriality, 557
- Territory defense, 842
- Tessaglia-Hymes, D. L., see Hochachka, W. M., 195
- Texas, 771
- Thermal and Energetic Significance of Cavity Roosting in Mountain Chickadees and Juniper Titmice, by Sheldon J. Cooper, 863
- Thermal microclimate, 863
 refugia, 714
- Thompson, David R., Kristjan Lillendahl, Jon Solmundsson, Robert W. Furness, Susan Waldron and Richard A. Phillips, Trophic Relationships Among Six Species of Icelandic Seabirds as Determined Through Stable Isotope Analysis, 898
- Thompson, Ian D., Holly A. Hogan and William A. Montevecchi, Avian Communities of Mature Balsam Fir Forests in Newfoundland: Age-Dependence and Implications for Timber Harvesting, 311
- Thryomanes bewickii*, 219
- Théry, M., see Mercey, P. d., 907
- Tieleman, B. I., see Williams, J. B., 714
- Time of Day of Ovulation by Three Duck Species in Subarctic Alaska, by Daniel Esler, 422
- Time-budgets of Common Murres at a Declining and Increasing Colony in Alaska, by Stephani G. Zador and John F. Piatt, 149
- Tits, Warblers, and Finches: Foliage-gleaning Birds of

- Nearctic and Palearctic Boreal Forests, by Russell Greenberg, Vladimir Pravosudov, John Sterling, Anna Kozlenko and Vitaly Kontorshchikov, 299
- Tobalske, B. W., see Tobalske, C., 472
- Tobalske, Claudine, and Bret W. Tobalske, Using Atlas Data To Model the Distribution of Woodpecker Species in the Jura, France, 472
- Total evaporative water loss, 432
- Toxostoma rufum*, 859
- Trade-off, 413
- Translocation, 21
- Tree Swallow, 246
- Tremblay, Yann, and Yves Cherel, Synchronous Underwater Foraging Behavior in Penguins, 179
- Trillmich, F., see Meijer, T., 124
- Troglodytes*, 446
- aedon*, 219
- Trophic Relationships Among Six Species of Icelandic Seabirds as Determined Through Stable Isotope Analysis, by David R. Thompson, Kristjan Liljendahl, Jon Solmundsson, Robert W. Furness, Susan Waldron and Richard A. Phillips, 898
- Tropical birds, 347, 529
- Tsipoura, Nellie, and Joanna Burger, Shorebird Diet During Spring Migration Stopover on Delaware Bay, 635
- Tufted Titmouse, 408, 880
- Turca, 439
- U**
- Uria aalge*, 149
- Use of Mist-net Capture Rates to Monitor Annual Variation in Abundance: A Validation Study, by Mariabeth Silkey, Nadav Nur and Geoffrey R. Geupel, 288
- Using Atlas Data To Model the Distribution of Woodpecker Species in the Jura, France, by Claudine Tobalske and Bret W. Tobalske, 472
- Using Radio-Transmitters to Improve Estimates of Gull Predation on Common Eider Ducklings, by K. Mawhinney and A. W. Diamond, 824
- V**
- Van Vliet, G. B., see Van Pelt, T. I., 395
- Van Pelt, Thomas I., John F. Piatt and Gustaaf B. Van Vliet, Vocalizations of the Kittlitz's Murrelet, 395
- Vancouver Island, 86
- Vanderkist, Brett A., Xiao-Hua Xue, Richard Griffiths, Kathy Martin, Wendy Beauchamp and Tony D. Williams, Evidence of Male-Bias in Capture Samples of Marbled Murrelets From Genetic Studies in British Columbia, 398
- Variation in the Onset of Incubation in a Neotropical Parrot, by J. Letitia Grenier and Steven R. Beissinger, 752
- Verner, Jared, and Kathryn L. Purcell, Fluctuating Populations of House Wrens and Bewick's Wrens in Foothills of the Western Sierra Nevada of California, 219
- Video surveillance, 42
- Villard, M., see Robichaud, I., 262
- Vocal and Behavioral Responses of Brown-headed Cowbirds to Flight Whistles From Different Di-
 alects, by Alfred M. Dufty Jr. and Annette Han-
 son, 484
- Vocalizations, 484, 689, 842
- Vocalizations of the Kittlitz's Murrelet, by Thomas I. Van Pelt, John F. Piatt and Gustaaf B. Van Vliet, 395
- W**
- Waldron, S., see Thompson, D. R., 898
- Walters, E. L., see Miller, E. H., 86
- Wandering Albatross, 360
- Warblers, 299
- Ward, D. H., see Ely, C. R., 390
- Water economy, 714
- Waterfowl, 422
- Weikel, Jennifer M., and John P. Hayes, The Foraging Ecology of Cavity-Nesting Birds in Young Forests of the Northern Coast Range of Oregon, 58
- Weiss, Valerie A., and Daniel A. Cristol, Plastic Color Bands Have No Detectable Short-term Effects on White-breasted Nuthatch Behavior, 884
- Wells, J. V., see Hochachka, W. M., 195
- Western Mediterranean, 909
- Westneat, David F., a review of *Sperm Competition and Sexual Selection*, edited by T. R. Birkhead and A. P. Møller, 924
- Wetland, 282, 461
- Whelan, C. J., see Schmidt, K. A., 916
- Whiskered Auklet, 518
- White-breasted Nuthatch, 408, 880, 884
- White-crowned Sparrow, 13, 288
- White-throated Sparrow, 842
- Whooping Crane, 664
- Wijesinghe, D. P., see Kannan, R., 927
- Williams, Jos. B., Heat Production and Evaporative Water Loss of Dune Larks from the Namib Desert, 432
- Williams, Joseph B., B. Irene Tieleman and Mohamed Shobrak, Lizard Burrows Provide Thermal Refugia for Larks in the Arabian Desert, 714
- Williams, T. D., see Vanderkist, B. A., 398
- Wilson, R. R., see Cooper, R. J., 920
- Wing and Primary Growth of the Wandering Albatross, by S. D. Berrow, N. Huin, R. Humpidge, A. W. A. Murray and P. A. Prince, 360
- Wing Ecomorphology of Seabirds from Johnston Atoll, by Fritz Hertel and Lisa T. Ballance, 549
- Winkler, D. W., see McCarty, J. P., 246
- Winter, 893
- Winter Ecology of the Endangered Golden-cheeked Warbler, by John H. Rappole, David I. King and Wylie C. Barrow Jr., 762
- Winter habitat use, 694
- Winter Wren, 446
- Within-Season and Between-Year Variation in the Structure of Common Eider Broods, by Markus Öst, 598
- Wolf, D. J., see Cooper, R. J., 920
- Wolfenbarger, L. LaReesa, Is Red Coloration of Male Northern Cardinals Beneficial During the Non-breeding Season?: A Test of Status Signaling, 655
- Wood warbler, 76
- Woodcock, 909

Work, Thierry M., J. Gregory Massey, Luanne Johnson, Steve Dougill and Paul C. Banko, Survival and Physiologic Response of Common Amakihi and Japanese White-eyes During Simulated Translocation, 21

Wrentit, 288

Wyoming, 378

X

Xue, X., see Vanderkist, B. A., 398

Y

Yasukawa, K., see Clotfelter, E. D., 105; and Clotfelter, E. D., 729

Yong, W., see Kelly, J. F., 76

Yorio, P., see Bertellotti, M., 790

Yucatán Peninsula, 14

Z

Zador, Stephani G., and John F. Piatt, Time-budgets of Common Murres at a Declining and Increasing Colony in Alaska, 149

Zenitsky, G. D., see Cooper, R. J., 920

Zink, R. M., see Klicka, J., 577

Zonotrichia albicollis, 842

leucophrys, 288

leucophrys oriantha, 133

Zosterops japonicus, 21