

INDEX TO VOLUME 91

A

- Abnormal sperm, 660-670
Acanthorhynchus tenuirostris, 328
Accipiter gentilis, 476-479
 nisus, 184, 260
Acrocephalus orientalis, 546
 palustris, 731
Actitis macularia, 967
Activity patterns, 585-591, 592-597
Adjacency patterns, 208-210
Aechmophorus clarkii, 37-42
 occidentalis, 37-42, 344
Aegolius acadicus, 715
 funereus, 234, 262, 712-716
 phoeniceus, 235
Aethia cristatella, 65-72, 709
 pusilla, 65-72, 709
 pygmaea, 65-72
Agamia agami, 215-217
Agelaius phoeniceus, 205, 242-253, 475, 783, 864, 941-961, 993-995
Agricultural drain water, 797-802
Aggression, 913-921
Aimophila botterii, 736-738
 cassinii, 736-738
Aix sponsa, 281, 811
Akeke, see *Loxops caeruleirostris*
Akepa, see *Loxops coccineus*
Akialoa, Kauai, see *Hemignathus procerus*
Alaska, 436-443
Alauda arvensis, 237
Albatross, Black-footed, see *Diomedea nigripes*
 Laysan, see *Diomedea immutabilis*
Alberta, 362-371
Alcidae, 699-710
Alle alle, 707
Allozymes, 379-396
Amakihi, Common, see *Hemignathus virens*
Amazonia, 720-722
Amazona albifrons, 844
 ochrocephala, 844
Amphispiza belli, 1-14, 405
Anas acuta, 285, 441
 americana, 441
 aucklandica, 136
 capensis, 131
 castanea, 131
 clypeata, 137, 441
 cyanoptera, 789
 discors, 285, 441
 flavirostris, 131-138
 georgica, 131-138
 platealea, 131-138
 platyrhynchos, 280, 789, 797, 968, 1001
 rubripes, 283
 sibilatrix, 131
 sparsa, 131
 strepera, 441, 789, 797
 superciliosa, 131
 versicolor, 131-138
Andersen, David E., Rongstad, Orrin J., and Mytton, William R., Response of nesting Red-tailed Hawks to helicopter overflights, 296-299
Anderson, Daniel W., see Spear, Larry B.
Anderson, Stanley H., see Greer, Richard D.
Andersson, Staffan, Tool use by the Fan-tailed Raven (*Corvus rhipidurus*), 999
Ani, Groove-billed, see *Crotophaga sulcirostris*
Anous stolidus, 692, 868
Anser albifrons, 990-991
Anthony, Robert G., see Green, Gregory A.
Anthus rubescens, 1008
Aphelocoma coerulescens, 237, 291, 731
 ultramarina, 63
Aptenodytes forsteri, 512
Arad, Zeev, Midtgård, Uffe, and Bernstein, Marvin H., Thermoregulation in Turkey Vultures: Vascular anatomy, arteriovenous heat exchange, and behavior, 505-514
Aratinga canicularis, 844
Archilochus alexandri, 17, 277
 colubris, 18, 274
Ardea herodias, 482-484
Arenaria interpres, 157
Argentina, 131-138
Arizona, 355-361, 416-428, 736-738
Armstrong, Doug P., see Tamm, Staffan
Army ants, 1008-1009
Arnold, Todd W., Variation in size and composition of Horned and Pied-billed grebe eggs, 987-989
Aspatha gularis, 217
Assortative mating, 868-874
Athene cucularia, 347-354
Atlantisia rogersi, 465-467
Auklet, Crested, see *Aethia cristatella*
 Least, see *Aethia pusilla*
 Parakeet, see *Cyclorhynchus psittacula*
 Whiskered, see *Aethia pygmaea*
Auriparus flaviceps, 327, 486, 983-985
Avery, Michael L., and van Riper, Charles, III, Seasonal changes in bird communities of the chaparral and blue-oak woodlands in central California, 288-295
Avian censuses, 288-295
 community structure, 288-295, 416-428
 dispersal, 242-253
 distribution, 15-22
 energetics, 266-271
Aviary experiment, 113-119
Aweida, Maria Klemperer, Adjacency patterns in the song-type deliveries of Western Meadowlarks, 208-210
Aythya affinis, 285, 486, 832
 americana, 280-287
 collaris, 285, 441
 marila, 832
 valisineria, 826-836

B

- Babbler, Grey-crowned, see *Pomastomus temporalis*
 Baja California, 742–743
 Baker, Myron Charles, see Stone, Eric R.
 Balda, Russell P., see Ganey, Joseph L.
 Baldassarre, Guy A., see Espino-Barros, Ricardo
 Ball, Gregory F., see Silver, Rae
 Bananaquit, see *Coereba flaveola*
 Baptista, Luis F., see DeWolfe, Barbara B.
 Barn-Owl, Common, see *Tyto alba*
 Bates, John M., see Mills, G. Scott
 Beck, Desiree, see Price, Trevor
 Bee-eater, European, see *Merops apiaster*
 White-fronted, see *Merops bullockoides*
 Behavior, 585–591, 592–597, 813–825, 997–998
 Behavioral options, 728–732
 Beissinger, Steven R., see Snyder, Noel F. R.
 Beletsky, Les D., and Orians, Gordon H., Red bands
 and Red-winged Blackbirds, 993–995
 Belthoff, James R., and Ritchison, Gary, Natal dispersal
 of Eastern Screech-Owls, 254–265
 Bergstrom, Peter W., Incubation temperatures of Wilson's
 Plovers and Killdeers, 634–641
 Beringia, 436–443
 Bernstein, Marvin H., see Arad, Zeev
 Bigamy, 728–732
 Bird distribution, 468–469
Biziura lobata, 486
 Blackbird, Eurasian, see *Turdus merula*
 Red-winged, see *Agelaius phoeniceus*
 Bluebird, Eastern, see *Sialia sialis*
 Mountain, see *Sialia currucoides*
 Western, see *Sialia mexicana*
 Blue-oak woodland habitat, 288–295
 Bobwhite, Northern, see *Colinus virginianus*
 Body composition, 983–985
 mass, 178–186, 983
 size, 23–29
 temperature, 465–467
Bolborhynchus lineola, 468
Bombycilla cedrorum, 963
 Booby, Masked, see *Sula dactylatra*
 Bowen, Bonnie S., Koford, Rolf R., and Vehrencamp,
 Sandra L., Dispersal in the communally breeding
 Groove-billed Ani (*Crotophaga sulcirostris*),
 52–64
 Bowers, Richard K., see Maurer, Brian A.
 Brant, see *Branta bernicla*
Branta bernicla, 440
 canadensis, 280, 440
 Braun, Clait E., see Hupp, Jerry W.
 Braun, Clait E., see Schmutz, Joel A.
 Breeder survival, 147–155
 Breeding behavior, 266–271, 485–492
 bird density, 416–428
 dispersal, 233–241
 distribution, 215–217
 -site competition, 139–146
 -site specificity, 217–219
 system evolution, 444–461
 success, 139–146, 571–584
 Brewer, Gwen, see McKinney, Frank
 Brice, A. T., Dahl, K. H., and Grau, C. R., Pollen
 digestibility by hummingbirds and psittacines,
 681–688
 Briggs, S. V., Food addition, clutch size, and the timing
 of laying in American Coots, 493–494
 Brigham, R. Mark, Roost and nest sites of Common
 Nighthawks: Are gravel roofs important?, 722–
 724
 British Columbia, 722–724
 Brood parasitism, 471–473, 620–627, 753–765
Brotogeris jugularis, 844
 Brown, Charles R., and Sherman, Lora C., Variation
 in the appearance of swallow eggs and the de-
 tection of intraspecific brood parasitism, 620–
 629
 Brown, Jerram L., Habitat saturation and ecological
 constraints: Origin and history of ideas, 1010–
 1013
 Bruner, Phillip L., see Johnson, Oscar W.
Bubo bubo, 263
 virginianus, 259, 777–786, 860, 1000–1002
Bubulcus ibis, 216, 695, 742, 981, 1008
Bucephala clangula, 198–203, 234, 807–812
 islandica, 198–203
 Bull, Evelyn L., Wright, Anthony L., and Henjum,
 Mark G., Nesting and diet of Long-eared Owls
 in conifer forests, Oregon, 908–912
 Bunting, Indigo, see *Passerina cyanea*
 Lazuli, see *Passerina amoena*
 Burger, Joanna, see Saliva, Jorge E.
Buteo galapagoensis, 52–64, 727
 jamaicensis, 97, 260, 296–299, 695, 727, 919,
 1000–1002
 lagopus, 919
 lineatus, 864
 polyosoma, 913
 regalis, 260, 362–371, 919
 swainsoni, 362–371, 616, 727–728, 919
Butorides striatus, 216
 Buzzard, Jackal, see *Buteo rufofuscus*
 Buzzard-Eagle, Black-chested, see *Geranoaetus mel-
 anoleucus*
 Byrd, G. Vernon, see Day, Robert H.

C

- Cactospiza pallida*, 999
 Caching, 766–776
Calcarius lapponicus, 616
 mccownii, 609–619
 ornatus, 611
Calidris alba, 165, 562, 1008
 alpina, 173, 440, 562–570
 mauri, 173, 565
 California, 288–295, 787–796, 797–802, 837–841
Callipepla californica, 250
Calypte anna, 328, 681–688
 costae, 681–688
Campephilus leucopogon, 1003
Campylorhynchus brunneicapillus, 237
 Canary, Common, see *Serinus canaria*
 Canopy, 891–907
 Canvasback, see *Aythya valisineria*
 Caprimulgidae, 193–197

- Caprimulgus badius*, 193–197
sericocaudatus, 193–197
 Capture success, 30–36
 Caracas, Andean, see *Phalco boenas megalopterus*
 Chimanga, see *Milvago chimango*
 Carbonate deposits, 803–806
 Cardinal, Northern, see *Cardinalis cardinalis*
Cardinalis cardinalis, 121, 238, 941–961
Carduelis lawrencei, 292
pinus, 113–119, 963
psaltria, 293
tristis, 984
Carpodacus mexicanus, 239, 292, 397
purpureus, 380, 775, 963
 Cash, Kevin J., Three adult Swainson's Hawks tending a nest, 727–728
Casmerodius albus, 486, 742, 862, 981
 Castro, N. Rogerio, see Siegel, Charles E.
Cathartes aura, 309, 505–514, 864, 1003
Catharus guttatus, 689
Catoptrophorus semipalmatus, 568
 Cavity availability, 875–885
Centrocercus urophasianus, 266–271, 678
Cephus columba, 707
Certhia americana, 775
 Chaffinch, Common, see *Fringilla coelebs*
Chamaea fasciata, 237, 290, 324–331, 405
 Chandler, Roderick E., see Snyder, Noel F. R.
 Chapman, C. A., Chapman, L. J., and Lefebvre, L., Variability in parrot flock size: possible functions of communal roosts, 842–847
 Chapman, L. J., see Chapman, C. A.
Charadrius montanus, 353
semipalmatus, 1008
vociferus, 634–641, 789
wilsonia, 634–641
 Chardine, John W., and Morris, Ralph D., Sexual size dimorphism and assortative mating in the Brown Noddy, 868–874
Chen caerulescens, 203, 280
 Chick growth, 429–435
 Chickadee, Black-capped, see *Parus atricapillus*
 Boreal, see *Parus hudsonicus*
 Carolina, see *Parus carolinensis*
 Mountain, see *Parus gambeli*
 Chicken, Greater Prairie, see *Tympanuchus cupido*
Chordeiles minor, 722–724
 Ciconiiformes, 860–867
Circus cyaneus, 135, 260, 800
Cistothorus palustris, 208, 332–340, 731, 856
 Clark, George A., Jr., and de Cruz, Justine B., Functional interpretation of protruding filoplumes in oscines, 962–965
 Clark, Larry, and Mason, J. Russell, Sensitivity of Brown-headed Cowbirds to volatiles, 922–932
 Clemens, Daniel T., Nocturnal hypothermia in Rosy Finches, 739–741
Cleptornis marchei, 188
 Cline, 242–253
 Cloacal lavage, 660–670, 941–961
 Cloud forest, 891–907
 Clutch size, 471–473, 753–765
Coccothraustes carripes, 718
coccothraustes, 718
hesperiphona, 718
melanozanthos, 718
migratorius, 718
personatus, 718
Cochlearius cochlearius, 216
 Cockatiel, see *Nymphicus hollandicus*
Coereba flaveola, 36, 235, 249
Colaptes auratus, 16, 250, 775, 820, 879, 910
Colibri thalassinus, 468
Colinus virginianus, 922
 Colopy, Michael W., see Frederick, Peter C.
 Colonial nesting, 860–867
 Colorado, 266–271, 296–299, 473–475
 Color bands, 993–995
Columba livia, 23–29, 480, 922
maculosa, 1003
 Columbia Basin, 347–354
Columbina picui, 1003
 Commensalism, 720–722
 Communal breeding, 52–64
 nesting, 992–993
 roosts, 842–847
 Community ecology, 891–907
 Competition, 65–72
 Concentration responding, 922–932
 Condor, Andean, see *Vultur gryphus*
 Connors, P. G., see Ruiz, G. M.
 Conspecific density, 886–890
Contopus sordidulus, 18, 473
virens, 18, 473
 Cooperative breeding, 52–64, 1005–1007
 Coot, American, see *Fulica americana*
 White-winged, see *Fulica leucoptera*
 Copulation, 990–991
Coragyps atratus, 135, 864, 1003
 Cormorant, Olivaceous, see *Hypoleucos brasilianus*
 Courtship feeding, 37–42
Corvus brachyrhynchos, 727, 860, 982
caurinus, 886
corax, 372–378, 711, 999
corone, 671, 672
ossifragus, 860
rhipidurus, 999
 Costa Rica, 52–64, 215–217, 891–907, 985–986, 1005–1007
 Cotinga, Shrike-like, see *Laniisoma elegans*
Coturnix coturnix, 604
japonica, 968
 Courtship, 272–279
 Cowbird, Brown-headed, see *Molothrus ater*
 Craig, Robert J., Observations of the foraging ecology and social behavior of the Bridled White-eye, 187–192
 Creeper, Brown, see *Certhia americana*
 Crossbill, Red, see *Loxia curvirostra*
Crotophaga sulcirostris, 52–64
 Crow, American, see *Corvus brachyrhynchos*
 Carrion, see *Corvus carrone*
 Common, see *Corvus brachyrhynchos*
 Fish, see *Corvus ossifragus*
 Hooded, see *Corvus corone*
 Northwestern, see *Corvus caurinus*
 Crown color, 660–670
 Cuculidae, 52–64
 Cues to predators, 479–482
 Culebra, 689–698, 868–874

Curlew, Bristle-thighed, see *Numenius tahitiensis*
Cyanocitta cristata, 236, 963
stelleri, 631, 910
Cyanocorax melanocyaneus, 1008
morio, 1008–1009
sanblasianus, 1008
yucatanicus, 1008
Cyclorhynchus psittacula, 65–72
Cygnus columbianus, 441, 829

D

Dabchick, New Zealand, see *Poliiocephalus rufopectus*
Dahl, K. H., see Brice, A. T.
Daption capensis, 734
Davis, Lloyd S., see Seddon, Philip J.
Day, Robert H., and Byrd, G. Vernon, Food habits of the Whiskered Auklet at Buldir Island, Alaska, 65–72
de Cruz, Justine B., see Clark, George A., Jr.
Demography, 300–316
Dendragapus obscurus, 678
Dendrocopus pileatus, 775
Dendrocygna autumnalis, 811
Dendroica caerulescens, 113–119, 545–561
coronata, 250, 963
discolor, 121, 233–241, 625
dominica, 19
palmarum, 1008
pennsylvanica, 709
petechia, 121, 221
virens, 114
Density, 139–146
Derrickson, Kim C., Bigamy in Northern Mockingbirds: Circumventing female-female aggression, 728–732
Desrochers, André, and Hannon, Susan J., Site-related dominance and spacing among winter flocks of Black-capped Chickadees, 317–323
DeWolfe, Barbara B., Baptista, Luis F., and Petrinovich, Lewis, Song development and territory establishment in Nuttall's White-crowned Sparrows, 397–407
Dialects, 1002–1005
Dickcissel, see *Spiza americana*
Diel variation, 272–279
Diet, 372–378, 671–674, 908–912, 913–921
Dietary strategies, 280–287
Digestion, 681–688
Diglossa baritula, 468
Diomedea exulans, 734
immutabilis, 1007
nigripes, 734
Discriminant analysis, 120–130
Dispersal, 52–64
Display behavior, 272–279
Distribution, 332–340, 355–361, 515–544, 712–716
Diurnal roosts, 722–724
Dives dives, 1008–1009
Dixon, Keith L., Contact zones of avian congeners on the southern Great Plains, 15–22
Dolbeer, Richard A., see Moore, William S.
Doubly-labeled water, 324–331
Dove, Mourning, see *Zenaida macroura*
Rock, *Columba livia*

Dovekie, see *Alle alle*
Drepanidinae, 379–396, 716–720, 933–940
Dryocopus pileatus, 642–652
Duck, African Black, see *Anas sparsa*
Australian Blue-billed, see *Oxyura australis*
Black-headed, see *Heteronetta atricapilla*
Musk, see *Biziura lobata*
Pacific Black, see *Anas superciliosa*
Ring-necked, see *Aythya collaris*
Dumetella carolinensis, 237
Dummy nests, 848–859
Dunlin, see *Calidris alpina*
Dunning, John B., Jr., see Mills, G. Scott
Dysmorodrepanis munroi, 716

E

Eadie, John Mc A., see Savard, Jean-Pierre L.
Eagle, Bald, see *Haliaeetus leucocephalus*
Harpy, see *Harpia harpyja*
White-breasted Sea, see *Haliaeetus leucogaster*
Eason, Perri, Harpy Eagle attempts predation on adult howler monkey, 469–470
Eciton burchellii, 1008–1009
Ecological counterparts, 15–22
Ecology, 720–722
Ecuador, 995–997
Edwards, Thomas C., Jr., Similarity in the development of foraging mechanics among sibling Ospreys, 30–36
Egg appearance, 620–627
composition, 987–989
cooling rate, 634–641
size, 203–205, 987–989
temperature, 634–641
Eggs, 215–217, 985–986
Egret, Cattle, see *Bubulcus ibis*
Great, see *Casmerodius albus*
Snowy, see *Egretta thula*
Egretta caerulea, 981
thula, 742, 981
tricolor, 864, 981
Eider, Steller's, see *Polysticta stelleri*
Electronic balance, 178–186
Ely, Craig R., Extra-pair copulation in the Greater White-fronted Goose, 990–991
Emberiza schoeniclus, 249
Emberizidae, 941–961
Embryotoxicosis, 787–796
Empidonax difficilis, 250
minimus, 207, 473, 731
oberholseri, 630
traillii, 473–475, 731
virescens, 19, 473
Empidonomus aurantioatrocristatus, 1003
Endangered species, 300–316
Energetics, 739–741, 983–985, 1000–1002
Energy reserves, 178–186
Engel, Kathleen A., and Young, Leonard S., Spatial and temporal patterns in the diet of Common Ravens in southwestern Idaho, 372–378
Entosphenus tridentata, 482–484
Environmental physiology, 100–107
Epiphytes, 891–907

Eremophila alpestris, 611
 Escano, Ronald E., see Hayward, Gregory D.
 Espino-Barros, Ricardo, and Baldassarre, Guy A., Activity and habitat-use patterns of breeding Caribbean Flamingos in Yucatan, Mexico, 585–591
 Espino-Barros, Ricardo, and Baldassarre, Guy A., Numbers, migration chronology, and activity patterns of nonbreeding Caribbean Flamingos in Yucatan, Mexico, 592–597
Eudocimus albus, 489, 864
 Euliss, Ned H., Jr., Jarvis, Robert L., and Gilmer, David S., Carbonate deposition on tail feathers on Ruddy Ducks using evaporation ponds, 803–806
Eumomota superciliosa, 217–219
 Evaporation ponds, 803–806
 Exploitation competition, 206–207
 Extra-pair copulation, 990–991

F

Facultative manipulation, 203–205
Falco mexicanus, 711–712, 996
 peregrinus, 822, 913, 995–997, 1008
 rusticollis, 296, 833
 sparverius, 557, 695, 730, 913
 tinnunculus, 493–494
 Falcon, Peregrine, see *Falco peregrinus*
 Prairie, see *Falco mexicanus*
 Falconiformes, 505–514
 Falls, J. Bruce, see Jones, Ian L.
 Fantail, Rufous, see *Rhipidura rufifrons*
 Farner, Donald S., see Schwabl, Hubert
 Fat, 983–985
 cycle, 156–177
 Fecal sac dispersal, 479–482
 Feeding, 317–323, 372–378
 ecology, 732–735
 rate, 147–155
 Female-female aggression, 728–732
 Ferguson, J.W.H., and Siegfried, W. R., Environmental factors influencing nest-site preference in White-browed Sparrow-Weavers (*Plocepasser mahali*), 100–107
Ficedula hypoleuca, 184, 237
 Field metabolic rate, 324–331
 Filoplumes, 962–965
 Finch, Deborah M., Relationships of surrounding riparian habitat to nest-box use and reproductive outcome in House Wrens, 848–859
 Finch, House, see *Carpodacus mexicanus*
 Purple, see *Carpodacus purpureus*
 Rosy, see *Leucosticte arctoa*
 Saffron, see *Sicalis flaveola*
 Slaty, see *Haplospiza rustica*
 Woodpecker, see *Cactuspiza pallida*
 Zebra, see *Poephila guttata*
 First breeding record, 995–997
 Flamingo, Caribbean, see *Pheonicopterus ruber*
 Greater, see *Pheonicopterus ruber*
 Lesser, see *Phoeniconaias minor*
 Fledging success, 147–155
 Flicker, Northern, see *Colaptes auratus*

Flight modes, 913–921
 ranges, 156–177
 Flightlessness, 465–467
 Flock, 317–323, 886–890
 Flocking, 826–836
 Florida, 30–36
 Flowerpiercer, Cinnamon-bellied, see *Diglossa baritula*
 Flushing, 997–998
 Flux, John E. C., and Flux, Margaret M., Incidence of communal nesting in the European Starling at Belmont, New Zealand, 992–993
 Flux, Margaret M., see Flux, John E. C.
 Flycatcher, Acadian, see *Empidonax virescens*
 Ash-throated, see *Myiarchus cinerascens*
 Brown-crested, see *Myiarchus tyrannulus*
 Great Crested, see *Myiarchus crinitus*
 Least, see *Empidonax minimus*
 Pied, see *Ficedula hypoleuca*
 Spotted, see *Muscicapa striata*
 Western, see *Empidonax difficilis*
 Willow, see *Empidonax traillii*
 Foliage density, 848–859
 structure, 113–119
 Food caching, 886–890, 1005–1007
 defendability, 826–836
 habits, 65–72, 372–378
 provisioning, 178–186
 supply, 429–435
 Foods, 280–287
 Foraging, 187–192, 826–836, 1005–1007
 behavior, 113–119
 ecology, 891–907
 mechanics, 30–36
 Forest habitat, 642–652
 Fowl, domestic, see *Gallus gallus*
Fratercula arctica, 143, 708
 Frederick, Peter C., and Collopy, Michael W., The role of predation in determining reproductive success of colonially nesting wading birds in the Florida Everglades, 860–867
Fregetta tropica, 734
Fringilla coelebs, 260
 Fuego-Patagonia, 408–415
Fulica americana, 489, 493–494, 596, 789, 797, 832
 leucoptera, 134
 Fulmar, Antarctic, see *Fulmarus glacialis*
 Northern, see *Fulmarus glacialis*
Fulmarus glacialis, 139, 734
 glacialis, 734

G

Gadwall, see *Anas strepera*
Gallinula chloropus, 134, 486, 620
 Gallinule, Common, see *Gallinula chloropus*
 Purple, see *Porphyryula martinica*
Gallus gallus, 922, 1001
 Ganey, Joseph L., and Balda, Russell P., Distribution and habitat use of Mexican Spotted Owls in Arizona, 355–361
 Gannett, Northern, see *Sula bassanus*
 Gaston, Anthony J., see Jones, Ian L.
 Gene flow, 242–253

- Geothlypis trichas*, 1008
Geranoaetus melanoleucus, 135, 913–921
 Germinating stored acorns, 722–726
 Gibson, Daniel D., and Kessel, Brina, Geographic variation in the Marbled Godwit and description of an Alaska subspecies, 436–443
 Gilmer, David S., see Euliss, Ned H., Jr.
Glaucidium gnoma, 715
Glossopsitta porphyrocephala, 681
 Godwit, Bar-tailed, see *Limosa lapponica*
 Hudsonian, see *Limosa haemastica*
 Marbled, see *Limosa fedoa*
 Golden-Plover, American, see *Pluvialis dominica*
 Greater, see *Pluvialis apricaria*
 Pacific, see *Pluvialis fulva*
 Goldeneye, Barrow's, see *Bucephala islandica*
 Common, see *Bucephala clangula*
 Goldfinch, American, see *Carduelis tristis*
 Gonads, 598–608
 Goose, Greater White-fronted, see *Anser albifrons*
 Lesser Snow, see *Chen caerulescens*
 Goshawk, Northern, see *Accipiter gentilis*
 Grackle, Boat-tailed, see *Quiscalus major*
 Great-tailed, see *Quiscalus mexicanus*
 Grassland cultivation, 362–371
 Grau, C. R., see Brice, A. T.
 Great Basin, 1–14
 Plains, 15–22, 332–340
 Grebe, Clark's, see *Aechmophorus clarkii*
 Eared, see *Podiceps nigricollis*
 Great Crested, see *Podiceps cristatus*
 Horned, see *Podiceps auritus*
 Least, see *Tachybaptus dominicus*
 Pied-billed, see *Podilymbus podiceps*
 Red-necked, see *Podiceps grisegena*
 Taczanowski's, see *Podiceps taczanowskii*
 Western, see *Aechmophorus occidentalis*
 Green, Gregory A., and Anthony, Robert G., Nesting success and habitat relationships of Burrowing Owls in the Columbia Basin, Oregon, 347–354
 Greer, Richard D., and Anderson, Stanley H., Relationships between population demography of McCown's Longspurs and habitat resources, 609–619
 Griffin, S. E., see Ruiz, G. M.
 Grosbeak, Black-headed, see *Pheucticus melanocephalus*
 Rose-breasted, see *Pheucticus ludovicianus*
 Ground-Cuckoo, Red-billed, see *Neomorphus pucheranii*
 Rufous-vented, see *Neomorphus geoffroyi*
 Group living, 842–847
 Grouse, Blue, see *Dendragapus obscurus*
 Sage, see *Centrocercus urophasianus*
 Guillemot, Pigeon, see *Cephus columba*
 Guineafowl, Helmeted, see *Numida meleagris*
 Gull, California, see *Larus californicus*
 Glaucous-winged, see *Larus glaucescens*
 Great Black-backed, see *Larus marinus*
 Heermann's, see *Larus heermanni*
 Kelp, see *Larus dominicanus*
 Laughing, see *Larus atricilla*
 Ring-billed, see *Larus delawarensis*
Gygis alba, 997–998
 Gyrfalcon, see *Falco rusticolus*
- H**
- Habitat, 476–479, 571–584
 preference, 689–698
 selection, 609–619
 -selection models, 362–371
 structure, 848–859
 use, 355–361, 515–544, 913–921
 Hackett, Shannon J., Effects of varied electrophoretic conditions on detection of evolutionary patterns in the Laridae, 73–90
Haematopus ostralegus, 562
 palliatius, 429–435
 Haemig, Paul D., Brown Jays as army ant followers, 1008–1009
Halcyon chloris, 188
Haliaeetus leucocephalus, 203–205, 833
 leucogaster, 695
 Hamerkop, see *Scopus umbretta*
 Hamilton, Joel M., see Siegel, Charles E.
 Handford, Paul, see Lougheed, S. C.
 Handford, Paul, see Lougheed, Stephen C.
 Hannon, Susan J., see Desrochers, André
Haplospiza rustica, 468
 Hardy, John William, and Straneck, Roberto, The Silky-tailed Nightjar and other neotropical caprimulgids: Unraveling some mysteries, 193–197
 Harrier, Northern, see *Circus cyaneus*
 Harris, M. P., and Wanless, S., Fall colony attendance and breeding success in the Common Murre, 139–146
 Hatchability, 787–796
 Haufler, Jonathan B., see Pakpahan, Ani M.
 Hawaiian Islands, 716–720
 honeycreepers, 379–396, 933–940
 Hawk, Ferruginous, see *Buteo regalis*
 Galapagos, see *Buteo galapagoensis*
 Harris', see *Parabuteo unicinctus*
 Red-shouldered, see *Buteo lineatus*
 Red-tailed, see *Buteo jamaicensis*
 Rough-legged, see *Buteo lagopus*
 Swainson's, see *Buteo swainsoni*
 Hayward, Gregory D., and Escano, Ronald E., Goshawk nest-site characteristics in western Montana and northern Idaho, 476–479
 Heat loading, 100–107
 loss, 505–514
 stress, 653–659
 transfer, 505–514
 Helicopter overflights, 296–299
 Helpers, 147–155, 727–728
Hemignathus munroi, 936
 parvus, 938
 procerus, 380
 sagittirostris, 938
 virens, 380, 936
 Hendricks, Paul, see Marks, Jeffrey S.
 Henjum, Mark G., see Bull, Evelyn L.
 Hennes, Steven K., see Zicus, Michael H.
 Heritability, 210–214
 Heron, Boat-billed, see *Cochlearius cochlearius*
 Chestnut-bellied, see *Agamia agami*
 Great Blue, see *Ardea herodias*

Green-backed, see *Butorides striatus*
 Little Blue, see *Egretta caerulea*
 Tricolored, see *Egretta tricolor*
Heteronetta atricapilla, 134
Heteroscelus incanus, 157
 Hill, Wendy L., Reply to Briggs: The roles of endogenous and exogenous nutrient supplies, 494–495
Himantopus mexicanus, 636, 789, 797–802
Hirundo pyrrhonota, 486, 620–627, 755
rustica, 185, 235, 489, 620–627
Hirundapus caudacutus, 824
giganteus, 824
 Hoffenberg, Ann S., see Lombardo, Michael P. see Power, Harry W.
 Holmes, Richard T., Sherry, Thomas W., and Reitsma, Leonard, Population structure, territoriality and overwinter survival of two migrant warbler species in Jamaica, 545–561
 Holocene, 408–415
 Holroyd, Geoffrey L., see Quinn, Michael S.
 Honeyeater, Micronesian, see *Myzomela rubrata*
 Hothem, Roger L., see Ohlendorf, Harry M. see Williams, Martha L.
 Howell, Steve N. G., and Webb, Sophie, Additional notes from Isla Clarion, Mexico, 1007–1008
 Howler monkey, 469–470
 Human disturbance, 296–299
 Hummingbird energetics, 324–331
 Hummingbird, Anna's, see *Calypte anna*
 Black-chinned, see *Archilochus alexandri*
 Costa's, see *Calypte costae*
 Ruby-throated, see *Archilochus colubris*
 Rufous, see *Selasphorus rufus*
 Hupp, Jerry W., and Braun, Clait E., Endogenous reserves of adult male Sage Grouse during courtship, 266–271
 Hybridization, 15–22
 Hybrid zone, 242–253
Hypoleucos brasiliensis, 410
 Hypothermia, 739–741

I

Ibis, Glossy, see *Plegadis falcinellis*
 White, see *Eudocimus albus*
Icteria virens, 238, 963
Icterus galbula, 15–22, 941–961, 963
spurius, 963
Ictinia mississippiensis, 313, 727
 Idaho, 372–378
 Inaccessible Island, 465–467
 Incubation, 178–186, 634–641
 Insemination, 660–670, 941–961
 Insular colonization, 379–396
 Interference competition, 206–207
 Interspecific differences, 272–279
 Intrasexual aggression, 43–51
 Intraspecific brood parasitism, 753–765
 Isla Clarion, 1007–1008
 Isolating mechanism, 933–940

J

Jackson, Wendy M., Rohwer, Sievert, and Nolan, Val, Jr., Within-season dispersal in Prairie Warblers and other passerines, 233–241

Jaksić, Fabian M., see Jiménez, Jaime E.
 Jarvis, Robert L., see Euliss, Ned H., Jr.
 Jaw muscle, 716–720
 Jay, Blue, see *Cyanocitta cristata*
 Brown, see *Cyanocorax morio*
 Bushy-crested, see *Cyanocorax melanocyaneus*
 Gray-breasted, see *Aphelocoma ultramarina*
 San Blas, see *Cyanocorax sanblasianus*
 Scrub, see *Aphelocoma coerulescens*
 Steller's, see *Cyanocitta stelleri*
 Yucatan, see *Cyanocorax yucatanicus*
 Jiménez, Jaime E., and Jaksić, Fabian M., Behavioral ecology of Grey Eagle-Buzzards, *Geranoaetus melanoleucus*, in central Chile, 913–921
 Johnson, Ned K., Marten, Jill A., and Ralph, C. John, Genetic evidence for the origin and relationships of Hawaiian honeycreepers (Aves: Fringillidae), 379–396
 Johnson, Oscar W., Morton, Martin L., Brunner, Phillip L., and Johnson, Patricia M., Fat cyclicity, predicted migratory flight ranges, and features of wintering behavior in Pacific Golden-Plovers, 156–177
 Johnson, Patricia M., see Johnson, Oscar W.
 Johnson, Steven G., see Johnston, Richard F.
 Johnston, Richard F., and Johnson, Steven G., Non-random mating in feral pigeons, 23–29
 Joint nesting, 52–64
 Jones, Ian L., Falls, J. Bruce, and Gaston, Anthony J., The vocal repertoire of the Ancient Murrelet, 699–710
 Jones, Stephanie L., see Wolf, Blair O.
 Jouventin, Pierre, see Lequette, Benoît
 Junco, Dark-eyed, see *Junco hyemalis*
 Yellow-eyed, see *Junco phaenotus*
Junco hyemalis, 121, 290, 839, 910
phaenotus, 628–633
 Juvenile mortality, 254–265

K

Kauai, 933–940
 Kennedy, E. Dale, Stouffer, Philip C., and Power, Harry W., Postovulatory follicles as a measure of clutch size and brood parasitism in European Starlings, 471–473
 Kennedy, E. Dale, see Power, Harry W.
 Kentucky, 254–265
 Kessel, Brina, see Gibson, Daniel D.
 Kesterson Reservoir, 787–796, 797–802
 Kestrel, American, see *Falco sparverius*
 Eurasian, see *Falco tinnunculus*
 Killdeer, see *Charadrius vociferus*
 Kingbird, Eastern, see *Tyrannus tyrannus*
 Kingfisher, Collared, see *Halcyon chloris*
 Kinglet, Golden-crowned, see *Regulus satrapa*
 Kite, Florida Everglade, see *Rostrhamus sociabilis*
 Mississippi, see *Ictinia mississippiensis*
 Snail, see *Rostrhamus sociabilis*
 Kittiwake, Black-legged, see *Rissa tridactyla*
 Knopf, Fritz L., see Sedgwick, James A.
 Koford, Rolf R., see Bowen, Bonnie S.
 Kroodsma, Donald E., Two North American song populations of the Marsh Wren reach distributional limits in the central Great Plains, 332–340

L

- Lagopus lagopus*, 486
Laniocera hypopyrrha, 446
rufescens, 446
Laniiosoma elegans, 446
Lanius ludovicianus, 10
Lanyon, Wesley E., see Prum, Richard O.
Lark, Horned, see *Eremophila alpestris*
Larus argentatus, 487, 638, 1008
atricilla, 695
californicus, 616
delawarensis, 620
dominicanus, 134, 689–698, 733
glaucescens, 760
heermanni, 99, 636
marinus, 826–836
occidentalis, 636
Laymon, Stephen A., Altitudinal migration movements of Spotted Owls in the Sierra Nevada, California, 837–841
Laysan Island, 997–998
Learning, 113–119
Lefebvre, L., see Chapman, C. A.
Lefevre, Christine, see Siegel-Causey, Douglas
Lequette, Benoît, Verheyden, Christophe, and Jouventin, Pierre, Olfaction in subantarctic seabirds: Its phylogenetic and ecological significance, 732–735
Lessells, C. M., and Ovenden, G. N., Heritability of wing length and weight in European Bee-eaters (*Merops apiaster*), 210–214
Leucosticte arctoa, 739
LH, 598–608
Limestone forest, 187–192
Limosa fedoa, 436–443, 568
haemastica, 441
lapponica, 436, 562
Lipaugus cryptolophus, 448
subalaris, 448
unirufus, 447
vociferans, 447
Lombardo, Michael P., Romagnano, Linda C., Stouffer, Philip C., Hoffenberg, Ann S., and Power, Harry W., The use of nest boxes as night roosts during the nonbreeding season by European Starlings, 744–747
Lombardo, Michael P., see Power, Harry W.
Longspur, Chestnut-collared, see *Calcarius ornatus*
Lapland, see *Calcarius lapponicus*
McCown's, see *Calcarius mccownii*
Lophodytes cucullatus, 486, 808
Lorikeet, Moluccan, see *Trichoglossus haematodus*
Purple-crowned, see *Glossopsitta porphyrocephala*
Rainbow, see *Trichoglossus haematodus*
Lougheed, A. J., see Lougheed, S. C.
Lougheed, S. C., Lougheed, A. J., Rae, M., and Handford, P., Analysis of a dialect boundary in chaco vegetation in the Rufous-collared Sparrow, 1002–1005
Lougheed, Stephen C., and Handford, Paul, Night songs in the Rufous-collared Sparrow, 462–465
Lovvorn, James R., Food defendability and antipredator tactics: Implications for dominance and pairing in Canvasbacks, 826–836
Loxia curvirostra, 380
Loxioides bailleui, 386, 939
Loxops caeruleirostris, 933–940
coccineus, 386, 938–940
Lymnophlyps swainsonii, 214–215
Lynch, James F., Distribution of overwintering nearctic migrants in the Yucatan Peninsula, I: General patterns of occurrence, 515–544

M

- MacWhirter, R. Bruce, On the rarity of intraspecific brood parasitism, 485–492
Maggie, Black-billed, see *Pica pica*
Male fidelity, 217–219
Manakin, Thrushlike, see *Schiffornis turdinus*
Mariana Islands, 187–192
Marin, Manuel A., Notes on the breeding of Chestnut-bellied Herons (*Agamia agamia*) in Costa Rica, 215–217
Marks, Jeffrey S., and Hendricks, Paul, On the flushing behavior of incubating White Terns, 997–998
Marten, Jill A., see Johnson, Ned K.
Martin, Purple, see *Progne subis*
Martin, Mark W., see Martin, Robert F.
Martin, Robert F., Scott, Peter E., and Martin, Mark W., Mate fidelity and breeding-site specificity of the Turquoise-browed Motmot, 217–219
Martínez-Sánchez, Juan C., Records of new or little known birds for Nicaragua, 468–469
Mason, J. Russell, see Clark, Larry
Mass loss, 178–186
Mate attendance, 43–51
choice, 993–995
feeding, 37–42
Matelson, Teri J., see Nadkarni, Nalini M.
Mating, 272–279
preference, 660–670
system, 43–51, 473–475
Maurer, Brian A., Webb, Elizabeth A., and Bowers, Richard K., Nest characteristics and nestling development of Cassin's and Botteri's sparrows in southeastern Arizona, 736–738
McDonald, David, and Winnett-Murray, Kathy, First reported nests of the Black-breasted Wood-Quail (*Odontophorus leucolaemus*), 985–986
McGillivray, W. Bruce, Geographic variation in size and reverse size dimorphism of the Great Horned Owl in North America, 777–786
McGuire, Terry R., see Power, Harry W.
McKinney, Frank, and Brewer, Gwen, Parental attendance and brood care in four Argentine dabbling ducks, 131–138
Meadowlark, Western, see *Sturnella neglecta*
Megadyptes antipodes, 653–659
Melamprosops phaeosoma, 394
Melanerpes aurifrons, 15–22
carolinus, 15–22, 775
erythrocephalus, 775
formicivorus, 52–64, 153, 237, 344, 724–726, 1005–1007
Meleagris gallopavo, 675–680, 1001
Melospiza georgiana, 121, 398
melodia, 121, 237, 249, 262, 606
Merganser, Common, see *Mergus merganser*
Hooded, see *Lophodytes cucullatus*

- Mergus merganser*, 811
Merops apiaster, 210–214
bullockoides, 213, 486
 Metabolic rate, 465–467, 1000–1002
 Mexico, 585–591, 592–597, 742–743
 Middens, 408–415
 Midtgård, Uffe, see Arad, Zeev
 Migration, 156–177, 660–670, 837–841
 Migratory birds, 515–544
 Mills, G. Scott, Dunning, John B., Jr., and Bates, John M., Effects of urbanization on breeding bird community structure in southwestern desert habitats, 416–428
Milvago chimango, 135, 913
Mimus polyglottos, 728–732
 Mixed reproductive strategies, 990–991
 Mixed-species flock, 1008–1009
 heronry, 742–743
Mniotilta varia, 19, 963
 Mockingbird, Northern, see *Mimus polyglottos*
Molothrus ater, 43–51, 236, 474, 762, 910, 922–932, 941–961, 963, 967
 Molt schedule, 562–570
Momotus momota, 217
 Monarch, Tinian, see *Monarcha takatsukasae*
Monarcha takatsukasae, 189
 Monteverde, 891–907
 Moore, William S., and Dolbeer, Richard A., The use of banding recovery data to estimate dispersal rates and gene flow in avian species: Case studies in the Red-winged Blackbird and Common Grackle, 242–253
 Moorhen, Common, see *Gallinula chloropus*
 Mora, Miguel A., Predation by a Brown Pelican at a mixed-species heronry, 742–743
 Moren, Juan, Body-mass variation in breeding Northern Wheatears: A field experiment with supplementary food, 178–186
 Morphology, 444–461
 Morphometrics, 210–214, 777–786, 868–874
 Morris, Ralph D., see Chardine, John W.
 Morton, Martin L., see Johnson, Oscar W.
 Motmot, Blue-throated Green, see *Aspatha gularis*
 Costa Rican Blue-crowned, see *Momotus momota*
 Turquoise-browed, see *Eumomota superciliosa*
 Mourner, Cinereous, see *Laniocera hypopyrrha*
 Speckled, see *Laniocera rufescens*
 Movement patterns, 562–570
 Murre, Common, see *Uria aalge*
Muscicapa striata, 486
Mycteria americana, 513
Myiarchus cinerascens, 18, 292
crinitus, 18, 879
tyrannulus, 18
 Mytton, William R., see Andersen, David E.
Myzomela rubrata, 188
- N
- Nadkarni, Nalini M., and Matelson, Teri J., Bird use of epiphyte resources in neotropical trees, 891–907
 Natural cavities, 875–885
Neomorphus geoffroyi, 720
pucheranii, 720–722
 Nelson, Douglas A., The importance of invariant and distinctive features in species recognition of bird song, 120–130
Neophron persopterus, 999
 Neotropical migrants, 545–561
 species, 214–215
 Nest, 215–217, 985–986
 -bottom temperature, 634–641
 -box use, 848–859
 boxes, 744–747, 807–812
 concealment, 689–698
 construction, 813–825
 -content destruction, 206–207
 failure, 787–796
 habitat, 908–912
 initiation, 675–680
 parasitism, 485–492
 predation, 1–14, 233–241, 347–354, 479–482
 prospecting, 807–812
 -site characteristics, 979–983
 sites, 476–479, 997–998
 -site selection, 653–659, 689–698, 722–724
 Nesting, 100–107, 711–712
 behavior, 296–299
 biology, 736–738
 habitat, 347–354, 653–659, 813–825
 outcome, 848–859
 success, 347–354
 Nestling feeding, 178–186
 growth, 736–738
 Nestlings, 215–217
Netta peposaca, 134
 Nicaragua, 468–469
 Nighthawk, Common, see *Chordeiles minor*
 Night-Heron, Black-crowned, see *Nycticorax nycticorax*
 Yellow-crowned, see *Nycticorax violaceus*
 Nightjar, Silky-tailed, see *Caprimulgus sericeaudatus*
 Night song, 462–465
 Nol, Erica, Food supply and reproductive performance of the American Oystercatcher in Virginia, 429–435
 Nolan, Val, Jr., see Jackson, Wendy M.
 Nonbreeding season behavior, 592–597, 744–747
 Nonrandom mating, 23–29
 North America, 962–965
Notocarbo atriceps, 408
bransfieldensis, 408–415
georgianus, 408
verrucosus, 408
Nucifraga columbiana, 910
 Nuechterlein, Gary L., and Storer, Robert W., Mate feeding by Western and Clark's grebes, 37–42
 Nuechterlein, Gary L., and Storer, Robert W., Reverse mounting in grebes, 341–346
Numenius arquata, 562
tahitiensis, 157, 998
Numida meleagris, 512
 Nutcracker, Clark's, see *Nucifraga columbiana*
 Nuthatch, European, see *Sitta europaea*
 Pygmy, see *Sitta pygmaea*
 Red-breasted, see *Sitta canadensis*
 White-breasted, see *Sitta carolinensis*
 Nutrition, 671–674, 720–722
Nyctibius grandis, 214–215
Nycticorax nycticorax, 486, 860, 981
violaceus, 979–983

Nyctiphrynus yucatanicus, 193–197
Nymphicus hollandicus, 681–688

O

- Oceanic zooplankton, 65–72
Odontophorus gujanensis, 985
leucolaemus, 985–986
 Odor discrimination, 922–932
Oenanthe oenanthe, 178–186
 Ohlendorf, Harry M., Hothem, Roger L., and Welsh, Daniel, Nest success, cause-specific nest failure, and hatchability of aquatic birds at selenium-contaminated Kesterson Reservoir and a reference site, 787–796
 Ohlendorf, Harry M., see Williams, Martha L.
 Olfaction, 732–735, 922–932
Oporornis formosus, 19
 Opportunistically polygynous, 728–732
 Oregon, 473–475, 908–912
Oreomystis bairdi, 387, 934
Oreortyx pictus, 839
Oreoscoptes montanus, 1–14
 Orians, Gordon H., see Beletsky, Les D.
 Oriole, Northern, see *Icterus galbula*
Ortalis canicollis, 1003
 Oscines, 962–965
 Osprey, see *Pandion haliaetus*
Otus asio, 15–22, 254–265
flammeolus, 715
kennicottii, 15–22, 713
 Ovariectomy, 108–112
 Ovenden, G. N., see Lessells, C. M.
 Overwinter survival, 545–561
 Owl, Barred, see *Strix varia*
 Boreal, see *Aegolius funereus*
 Burrowing, see *Athene cucularia*
 Eagle, see *Bubo bubo*
 Flammulated, see *Otus flammeolus*
 Great Gray, see *Strix nebulosa*
 Great Horned, see *Bubo virginianus*
 Long-eared, see *Asio otus*
 Mexican Spotted, see *Strix occidentalis*
 Northern Saw-whet, see *Aegolius acadicus*
 Tawny, see *Strix aluco*
 Tengmalm's, see *Aegolius funereus*
Oxyura australis, 486
jamaicensis, 280–287, 803–806, 832
 Oystercatcher, American, see *Haematopus palliatus*
 American Black, see *Haematopus bachmani*
 European, see *Haematopus ostralegus*
- P
- Pachyramphus*, 444–461
aglaiae, 453
 Pacific lamprey, 482–484
 Pair-bond, 139–146
 duration, 131–138
 Pairing chronology, 826–836
 Pakpahan, Ani M., Haufler, Jonathan B., and Prince, Harold H., Metabolic rates of Red-tailed Hawks and Great Horned Owls, 1000–1002
 Panama, 724–726
Pandion haliaetus, 30–36, 313
Parabuteo unicinctus, 727, 913
 Parakeet, Barred, see *Bolborhynchus lineola*
 Orange-fronted, see *Aratinga canicularis*
 Parasitism insurance hypothesis, 753–765
 Parental behavior, 628–633
Paroreomyza montana, 386
 Parrot, Orange-chinned, see *Brotoquis jugularis*
 White-fronted, see *Amazona albifrons*
 Yellow-headed, see *Amazona ochrocephala*
 Parrotbill, Maui, see *Pseudonestor xanthophrys*
 Parrots, 842–847
 Parula, Northern, see *Parula americana*
Parula americana, 19
 Parulinae, 113–119, 515–544
Parus atricapillus, 113–119, 260, 317–323, 700, 739, 766–776, 886–890, 984
bicolor, 15–22, 121, 321, 766–776, 963
caeruleus, 875
carolinensis, 321
cinctus, 739
cristatus, 321, 598–608
gambeli, 321
hudsonicus, 774
inornatus, 295
major, 208, 235, 249, 260, 321, 598–608, 632, 761, 875, 1002
montanus, 321, 598–608, 739
palustris, 260, 773
Passer domesticus, 262, 488, 734, 744, 783, 922
moabiticus, 488
Passerella iliaca, 250, 295
 Passeriformes, 628–633
Passerina amoena, 16
cyanea, 16, 120, 941–961, 963
Pelecanus occidentalis, 742–743
 Pelican, Brown, see *Pelecanus occidentalis*
 Penguin, Galapagos, see *Spheniscus mendiculus*
 Yellow-eyed, see *Megadyptes antipodes*
 Peripheral vascular anatomy, 505–514
 Petit, Daniel R., Petit, Lisa J., and Petit, Kenneth E., Winter caching ecology of deciduous woodland birds and adaptations for protection of stored food, 766–776
 Petit, Daniel R., see Petit, Kenneth E.
 Petit, Kenneth E., Petit, Lisa J., and Petit, Daniel R., Fecal sac removal: Do the pattern and distance of dispersal affect the chance of nest predation?, 479–482
 Petit, Kenneth E., see Petit, Daniel R.
 Petit, Lisa J., see Petit, Daniel R.
 Petit, Lisa J., see Petit, Kenneth E.
 Petrel, Cape, see *Daption capensis*
 White-chinned, see *Procellaria aequinoctialis*
 Petrino, Lewis, see DeWolfe, Barbara B.
Phaethornis guy, 277
 Phalacrocoracidae, 408–415
Phalacrocorax aristotelis, 139, 489
atriceps, 733
Phalacrocorax melanocephalus, 913
phasianidae, 985–986
Pheucticus ludovicianus, 16, 941–961
melanocephalus, 16, 292
 Philopatry, 52–64, 198–203
 Phoebe, Eastern, see *Sayornis phoebe*
Phoebastria palpebrata, 734
Phoenicaias minor, 596

- Phoenicopterus ruber*, 585–591, 592–597
Phoenicurus phoenicurus, 249, 462
 Photoperiodism, 108–112, 598–608
Phylidonyris novaehollandiae, 682
Phylloscopus borealis, 219–221
 inornatus, 220
 trochiloides, 546
 trochilus, 220
 Phylogenetic inference, 379–396
 systematics, 444–461
 Phylogeny, 813–825
 Physiological condition, 562–570
Pica pica, 495, 762, 922
Picoides borealis, 650
 pubescens, 18, 775
 villosus, 775
 Pintail, Brown, see *Anas georgica*
 White-checked, see *Anas bahamensis*
Pipilo erythrophthalmus, 16, 121, 290, 397
 fuscus, 292
 Pipit, American Water, see *Anthus rubescens*
Pipreola chlorolepidota, 450
Piranga ludoviciana, 380
 olivacea, 963
 Pitelka, F. A., see Ruiz, G. M.
Plegadis falcinellis, 981
Plocepasser mahali, 100–107
Ploceus cucullatus, 489
 Plover, Black-bellied, see *Pluvialis squatarola*
 Mountain, see *Charadrius montanus*
 Semipalmated, see *Charadrius semipalmatus*
 Wilson's, see *Charadrius wilsonia*
 Plumage, 23–29
 Plumcleeter, Bronze-tailed, see *Chalybura urochrysis*
Pluvialis apricaria, 353
 dominica, 157
 fulva, 156–177
 squatarola, 568
Podiceps auritus, 344, 987–989
 cristatus, 344
 grisegena, 344
 nigricollis, 41, 344, 742, 787–796, 797
 taczanowskii, 41
Podilymbus podiceps, 344, 489, 987–989
Poephila guttata, 973, 993
Poliocephalus rufopectus, 344
 Pollen, 681–688
 Polygamy, 727–728
 Polygyny, 473–475
Polysticta stelleri, 833
Pomacea paludosa, 313
Pomastomus temporalis, 153
 Poorwill, Yucatan, see *Nyctiphrynus yucatanicus*
 Population demography, 609–619
 density, 43–51, 598–608
 dynamics, 362–371
 genetics, 242–253
 trends, 355–361
 Populations, 332–340
Porphyrio porphyrio, 52–64
Porphyryla martinica, 864
 Position in colony, 139–146
 Postbreeding activity, 807–812
 Postovulatory follicles, 471–473
 Potoo, Great, see *Nyctibius grandis*
 Power, Harry W., Kennedy, E. Dale, Romagnano, Lin-
 da C., Lombardo, Michael P., Hoffenberg, Ann
 S., Stouffer, Philip C., and McGuire, Terry R.,
 The parasitism insurance hypothesis: Why star-
 lings leave space for parasitic eggs, 753–765
 Power, Harry W., see Kennedy, E. Dale
 Power, Harry W., see Lombardo, Michael P.
 Pratt, H. Douglas, Species limits in akepas (*Drepani-
 dinae: Loxops*), 933–940
 Predation, 469–470, 689–698, 742–743, 826–836, 860–
 867
 avoidance, 233–241
 rates, 479–482
 risk, 848–859
 Prey abundance, 913–921
 distribution, 113–119
 -induced mortality, 482–484
 productivity, 609–619
 Price, Trevor, and Beck, Desiree, Observations on the
 breeding of the Arctic Warbler in Alaska, 219–
 221
 Prince, Harold H., see Pakpahan, Ani M.
Procellaria aequinoctialis, 734
 Procellariiformes, 732–735
Progne subis, 708
Protonotaria citrea, 479–482
 Provisioning rates, 429–435
 Prum, Richard O., and Lanyon, Wesley E., Monophyly
 and phylogeny of the *Schiffornis* group (*Tyr-
 annoidea*), 444–461
Pseudonestor xanthophrys, 716–720
Psittirostra psittacea, 719
 Ptarmigan, Willow, see *Lagopus lagopus*
 Puffin, Atlantic, see *Fratercula arctica*
Puffinus auricularis, 1007–1008
 Pukeko, see *Porphyrio porphyrio*
 Pygmy-Owl, Northern, see *Glaucidium gnoma*
- ## Q
- Quelea, Red-billed, see *Quelea quelea*
 Quail, California, see *Callipepla californica*
 Japanese, see *Coturnix coturnix* or *C. japonica*
 Mountain, see *Oreotyx pictus*
 Quantitative genetics, 210–214
 Quay, W. B., Insemination of Tennessee Warblers dur-
 ing spring migration, 660–670
 Quay, W. B., Timing of sperm releases and insemi-
 nations in resident emberizids: A comparative
 study, 941–961
Quercus costaricensis, 1005–1007
Querula purpurata, 458
 Quinn, Michael S., and Holroyd, Geoffrey L., Nestling
 and egg destruction by House Wrens, 206–207
Quiscalus major, 205, 309, 864
 mexicanus, 203–205
 quiscula, 242–253, 879
- ## R
- Radiotelemetry, 722–724, 837–841
 Rac, M., see Loughheed, S. C.

- Ralph, C. John, see Johnson, Ned K.
 Rangel-Salazar, J. Luis, and Vega-Rivera, J. Humberto, Two new records of birds for southern Mexico, 214–215
 Raven, Common, see *Corvus corax*
 Fan-tailed, see *Corvus rhipidurus*
 Rectrices, 803–806
 Recruitment, 797–802
Recurvirostra americana, 639, 789, 797–802
 Redpoll, Common, see *Acanthis flammea*
 Redshank, Common, see *Tringa totanus*
 Redstart, American, see *Setophaga ruticilla*
 Eurasian, see *Phoenicurus phoenicurus*
 Reed-Bunting, see *Emberiza schoeniclus*
Regulus satrapa, 775, 985
 Reitsma, Leonard, see Holmes, Richard T.
 Remizidae, 983–985
 Rendell, Wallace B., and Robertson, Raleigh J., Nest-site characteristics, reproductive success and cavity availability for Tree Swallows breeding in natural cavities, 875–885
 Renken, Rochelle B., and Wiggers, Ernie P., Forest characteristics related to Pileated Woodpecker territory size in Missouri, 642–652
 Reproduction, 671–674, 675–680, 908–912
 Reproductive biology, 1–14
 output, 23–29
 performance, 429–435
 strategy, 485–492, 753–765
 success, 429–435, 787–796, 875–885, 993–995
 Resident bird, 214–215
 Resource, 891–907
 Return rates, 198–203
 Reverse size dimorphism, 777–786
Rhinoptilus africanus, 639
Rhipidura rufifrons, 188
Rhodocanthis flaviceps, 938
palmeri, 938
Riparia riparia, 621
 Riparian woodlands, 848–859
 Risk aversion, 753–765
Rissa tridactyla, 145
 Ritchison, Gary, see Belthoff, James R.
 Robertson, Raleigh J., see Rendell, Wallace B.
 Robin, American, see *Turdus migratorius*
 Rohwer, Sievert, see Jackson, Wendy M.
 Romagnano, Linda C., see Lombardo, Michael P.
 Romagnano, Linda C., see Power, Harry W.
 Rongstad, Orrin J., see Andersen, David E.
 Rooftops, 722–724
 Roost structure, 562–570
 Roosting, 744–747, 983–985
 Roppe, Jerry A., Siegel, Steven M., and Wilder, Steven E., Prairie Falcon nesting on transmission towers, 711–712
Rostrhamus sociabilis, 296–299, 300–316, 861
 Rosybill, see *Netta peposaca*
 Rotenberry, John T., and Wiens, John A., Reproductive biology of shrubsteppe passerine birds: Geographical and temporal variation in clutch size, brood size, and fledging success, 1–14
 Ruiz, G. M., Connors, P. G., Griffin, S. E., and Pitelka, F. A., Structure of a wintering Dunlin population, 562–570
Rupicola peruviana, 450
rupicola, 451
 Ryan, Peter G., Watkins, Barry P., and Siegfried, W. Roy, Morphometrics, metabolic rate and body temperature of the smallest flightless bird: The Inaccessible Island Rail, 465–467
Rynchops niger, 583
- ## S
- Safina, Carl, Witting, David, and Smith, Kelly, Viability of salt marshes as nesting habitat for Common Terns in New York, 571–584
Saguinus, 720–722
 Saipan, 187–192
 Saliva, Jorge E., and Burger, Joanna, Effect of experimental manipulation of vegetation density on nest-site selection in Sooty Terns, 689–698
Salpinctes obsoletus, 208
 Salt marsh, 571–584
 Sanderling, see *Calidris alba*
 San Joaquin Valley, 803–806
 Sandpiper, Western, see *Calidris mauri*
 Sapsucker, Williamson's, see *Sphyrapicus thyroideus*
 Yellow-bellied, see *Sphyrapicus varius*
 Savard, Jean-Pierre L., and Eadie, John Mc A., Survival and breeding philopatry in Barrow's and Common goldeneyes, 198–203
Saxicola torquata, 235
Sayornis phoebe, 19, 473, 822
 Scaup, Greater, see *Aythya marila*
 Lesser, see *Aythya affinis*
Schiffornis, 444–461
major, 459
turdinus, 459
virescens, 459
 Schmutz, Joel A., and Braun, Clait E., Reproductive performance of Rio Grande Wild Turkeys, 675–680
 Schmutz, Josef K., Hawk occupancy of disturbed grasslands in relation to models of habitat selection, 362–371
 Schwabl, Hubert, and Farner, Donald S., Dependency on testosterone of photoperiodically-induced vernal fat deposition in female White-crowned Sparrows, 108–112
Scopus umbretta, 344
 Scott, Peter E., see Martin, Robert F.
 Screech-Owl, Eastern, see *Otus asio*
 Western, see *Otus kennicottii*
 Seabirds, 699–710, 732–735
 Seasonal turnover, 288–295
 variation, 147–155
 Secondary cavity-nesting, 848–859
 Seddon, Philip J., and Davis, Lloyd S., Nest-site selection by Yellow-eyed Penguins, 653–659
 Sedgwick, James A., and Knopf, Fritz L., Regionwide polygyny in Willow Flycatchers, 473–475
Seiurus aurocapillus, 963
motacilla, 963
noveboracensis, 963
Selasphorus platycercus, 274
rufus, 273
 Selenium, 787–796, 797–802
Serinus canaria, 945
 Sex control, 203–205
 ratio, 43–51

- Sexual differences, 660–670
 dimorphism, 203–205, 868–874
- Shag, Antarctic, see *Notocarbo bransfieldensis*
 European, see *Phalacrocorax aristotelis*
 Imperial, see *Notocarbo atriceps* or *Phalacrocorax atriceps*
 Kerguelen, see *Notocarbo verrucosus*
 Red-legged, see *Stictocarbo gaimardi*
 Rock, see *Stictocarbo magellanicus*
 South Georgia, see *Notocarbo georgianus*
- Shearwater, Townsend's, see *Puffinus auricularis*
- Shelduck, see *Tadorna tadorna*
- Sherman, Lora C., see Brown, Charles R.
- Sherry, Thomas W., see Holmes, Richard T.
- Shoveler, Northern, see *Anas clypeata*
 Red, see *Anas platalea*
- Shrike, Loggerhead, see *Lanius ludovicianus*
- Shrubsteppe, 1–14, 347–354
- Sialia currucoides*, 910
mexicana, 910
sialis, 235, 262, 744, 762, 879
- Sicalis flaveola*, 380
- Siegel, Charles E., Hamilton, Joel M., and Castro, N. Rogerio, Observations of the Red-billed Ground-Cuckoo (*Neomorphus pucheranii*) in association with tamarins (*Saguinas*) in northeastern Amazonian Peru, 720–722
- Siegel, Steven M., see Roppe, Jerry A.
- Siegel-Causey, Douglas, and Lefevre, Christine, Holocene records of the Antarctic Shag (*Phalacrocorax* [*Notocarbo*] *bransfieldensis*) in Fuegian waters, 408–415
- Siegfried, W. R., see Ferguson, J.W.H.
- Siegfried, W. Roy, see Ryan, Peter G.
- Silver, Rae, and Ball, Gregory F., Brain, hormone and behavior interactions in avian reproduction: Status and prospectus, 966–978
- Silvereye, Heron Island, see *Zosterops lateralis*
- Silverin, B., Viebke, P. A., and Westin, J., An artificial simulation of the vernal increase in day length and its effects on the reproductive system in three species of tits (*Parus* spp.), and modifying effects of environmental factors—A field experiment, 598–608
- Siskin, Pine, see *Carduelis pinus*
- Site attachment, 545–561
 -related dominance, 317–323
- Sitta canadensis*, 775
carolinensis, 353, 766–776
europaea, 262
pygmaea, 147–155
- Skimmer, Black, see *Rynchops niger*
- Skin vasculature, 505–514
- Skull, 716–720
- Skylark, Eurasian, see *Alauda arvensis*
- Smith, Kelly, see Safina, Carl
- Snyder, Noel F. R., Beissinger, Steven R., and Chandler, Roderick E., Reproduction and demography of the Florida Everglade (Snail) Kite, 300–316
- Social behavior, 43–51, 187–192
 facilitation, 30–36
- Solitary roosting, 992–993
- Song, 120–130, 332–340, 397–407
 repertoires, 208–210
 sequences, 208–210
 variation, 120–130
- Sooty-Albatross, Light-mantled, see *Phoebastria palpebrata*
- Spacing, 317–323
- Sparrow, Botteri's, see *Aimophila botterii*
 Brewer's, *Spizella breweri*
 Cassin's, see *Aimophila cassinii*
 Chipping, see *Spizella passerina*
 Clay-colored, see *Spizella padilla*
 Dead Sea, see *Passer moabiticus*
 Field, see *Spizella pusilla*
 Fox, see *Passerella iliaca*
 House, see *Passer domesticus*
 Rufous-collared, see *Zonotrichia capensis*
 Sage, see *Amphispiza belli*
 Song, see *Melospiza melodia*
 Swamp, see *Melospiza georgiana*
 Tree, see *Spizella arborea*
 White-crowned, see *Zonotrichia leucophrys*
 White-throated, see *Zonotrichia albicollis*
- Sparrowhawk, Eurasian, see *Accipiter nisus*
- Sparrow-Weaver, White-browed, see *Plocepasser mahali*
- Spear, Larry B., and Anderson, Daniel W., Nest-site selection by Yellow-footed Gulls, 91–99
- Species, 332–340
 differences, 941–961
 recognition, 120–130
 richness, 288–295
- Sperm release, 941–961
- Spermatzoa, 660–670
- Spheniscus mendiculus*, 658
- Sphyrapicus thyroideus*, 910
varius, 775
- Spinebill, Eastern, see *Acanthorhynchus tenuirostris*
- Spiza americana*, 616
- Spizella arborea*, 604, 963
breweri, 1–14
pallida, 207
passerina, 120–130, 274, 910, 963
pusilla, 120–130, 963
- Stanback, Mark T., Observations on food habits and social organization of Acorn Woodpeckers in Costa Rica, 1005–1007
- Starling, European, see *Sturnus vulgaris*
- Stellula calliope*, 272–279
- Sterna antillarum*, 582
dougallii, 583
elegans, 99
forsteri, 582
fuscata, 689–698, 998
hirundo, 41, 571–584, 870
maxima, 99
virgata, 733
vittata, 733
- Steroids, 598–608
- Stictocarbo gaimardi*, 410
magellanicus, 410
- Stigmatura budytoides*, 1003
- Stiles, F. Gary, see Weathers, Wesley W.
- Stilt, Black-necked, see *Himantopus mexicanus*

- Stone, Eric R., and Baker, Myron Charles, The effects of conspecifics on food caching by Black-capped Chickadees, 886-890
- Storer, Robert W., see Nuechterlein, Gary L.
- Stork, Wood, see *Mycteria americana*
- Storm-Petrel, Black-bellied, see *Fregatta tropica*
- Wilson, see *Oceanites oceanicus*
- Stouffer, Philip C., see Kennedy, E. Dale
see Lombardo, Michael P.
see Power, Harry W.
- Straneck, Roberto, see Hardy, John William
- Streptopelia risoria*, 971
- Streptoprocne semicollaris*, 813-825
zonaris, 813-825
- Strix aluco*, 263
nebulosa, 715
occidentalis, 261, 355-361, 837-841
varia, 715
- Structural cues hypothesis, 642-652
- Sturnella neglecta*, 208-210
- Sturnus vulgaris*, 471-473, 486, 734, 744-747, 753-765, 842-847, 875, 910, 922, 963, 970, 992-993
- Sula bassanus*, 145
dactylatra, 1007
- Sullivan, Kimberly A., see Weathers, Wesley W.
- Survival, 217-219
rates, 198-205
- Swallow, Bank, see *Riparia riparia*
Barn, see *Hirundo rustica*
Cliff, see *Hirundo pyrrhonota*
Tree, see *Tachycineta bicolor*
- Swan, Tundra, see *Cygnus columbianus*
- Swanson, George A., see Woodin, Marc C.
- Swift, White-collared, see *Streptoprocne zonaris*
White-naped, see *Streptoprocne semicollaris*
- Sydeman, William J., Effects of helpers on nestling care and breeder survival in Pygmy Nuthatches, 147-155
- Sympatry, 408-415
- Synthliboramphus antiquus*, 699-710
- Syrinx, 444-461
- Systematics, 193-197
- T**
- Tachybaptus dominicus*, 344
- Tachycineta bicolor*, 206-207, 479-482, 875-885
thalassina, 292
- Tactile sense, 962-965
- Tadorna tadorna*, 826
- Tamaulipas, 1008-1009
- Tamm, Staffan, Armstrong, Doug P., and Tooze, Zena J., Display behavior of male Calliope Hummingbirds during the breeding season, 272-279
- Tanager, Scarlet, see *Piranga olivaceae*
Western, see *Piranga ludoviciana*
- Tangantangan thickets, 187-192
- Tattler, Wandering, see *Heteroscelus incanus*
- Teal, Brown, see *Anas aucklandica*
Cape, see *Anas capensis*
Chestnut, see *Anas castanea*
Cinnamon, see *Anas cyanoptera*
- Silver, see *Anas versicolor*
- Speckled, see *Anas flavirostris*
- Teather, Kevin L., Sex and egg size in Great-tailed Grackles, 203-205
- Telemetry, 739-741
- Temperature regulation, 505-514
- Tern, Antarctic, see *Sterna vittata*
Common, see *Sterna hirundo*
Elegant, see *Sterna elegans*
Forster's, see *Sterna forsteri*
Kerguelan, see *Sterna virgata*
Least, see *Sterna antillarum*
Roseate, see *Sterna dougallii*
Royal, see *Sterna maxima*
White, see *Gygis alba*
- Territorial behavior, 598-608
- Territoriality, 43-51, 317-323, 362-371
- Territories, 642-652
- Territory establishment, 397-407
size, 609-619
- Testosterone, 108-112
- Tetrao urogallus*, 269
- Texas, 15-22
- Thalurania colombica*, 324-331
- Thermoregulation, 739-741
- Thrasher, Sage, see *Oreoscoptes montanus*
- Thrush, Hermit, see *Catharus guttatus*
Song, see *Turdus philomelos*
- Thryomanes bewickii*, 249, 290, 405
- Thryothorus ludovicianus*, 469
- Tidal fronts, 65-72
- Time budget, 913-921
- Tinian, 187-192
- Tit, Blue, see *Parus caeruleus*
Crested, see *Parus cristatus*
Great, see *Parus major*
Marsh, see *Parus palustris*
Siberian, see *Parus cinctus*
Willow, see *Parus montanus*
- Titmouse, Tufted, see *Parus bicolor*
- Todirostrum magaritaceiventer*, 1003
- Tool use, 999
- Tooze, Zena J., see Tamm, Staffan
- Towhee, Rufous-sided, see *Pipilo erythrophthalmus*
- Townsend's ground squirrel, 1-14
- Transmission line, 711-712
- Trichoglossus haematodus*, 681-688
- Tringa totanus*, 567
- Troglodytes aedon*, 206-207, 238, 249, 262, 848-859
rufociliatus, 468
tanneri, 1007
- Tropical, 868-874
birds, 891-907
forest, 891-907
rain forest, 214-215
- Tropics, 324-331
- Turdus amaurochalinus*, 1003
merula, 120, 237
migratorius, 207, 910, 962
philomelos, 486
- Turkey, domestic, see *Meleagris gallopavo*
Wild, see *Meleagris gallopavo*
- Turnstone, Ruddy, see *Arenaria interpres*
- Turtle-Dove, Ringed, see *Streptopelia risoria*

Tympanuchus cupido, 262
 Tyrannidae, 473–475
Tyrannus tyrannus, 234, 707
Tyto alba, 171, 260, 693

U

Urbanization, 416–428
Uria aalge, 139–146, 707, 742

V

Vanellus cayennensis, 463
 Van Riper, Charles, III, see Avery, Michael L.
 Vega-Rivera, J. Humberto, see Rangel-Salazar, J. Luis
 Vegetation density, 689–698
 manipulation, 689–698
 structure, 609–619
 volume, 416–428
 Vehrencamp, Sandra L., see Bowen, Bonnie S.
 Verdin, see *Auriparus flaviceps*
 Verheyden, Christophe, see Lequette, Benoît
Vermivora celata, 221, 292
 ruficapilla, 274
 Vernal migratory fattening, 108–112
Vestiaria coccinea, 387
 Viebke, P. A., see Silverin, B.
 Violet-Ear, Green, see *Colibri thalassinus*
 Vireo, Red-eyed, see *Vireo olivaceus*
 Warbling, see *Vireo gilvus*
 Yellow-throated, see *Vireo flavifrons*
Vireo flavifrons, 19, 709
 gilvus, 695, 963
 olivaceus, 19
 Virginia, 979–983
 Vocal repertoire, 699–710
 Vocalizations, 193–197, 699–710, 1002–1005
Vultur gryphus, 913
 Vulture, Black, see *Coragyps atratus*
 Egyptian, see *Neophron persopterus*
 Turkey, see *Cathartes aura*

W

Wanless, S., see Harris, M. P.
 Warbler, Arctic, see *Phylloscopus borealis*
 Black-and-white, see *Mniotilta varia*
 Black-throated Blue, see *Dendroica caerulescens*
 Black-throated Green, see *Dendroica virens*
 Canada, see *Wilsonia canadensis*
 Chestnut-sided, see *Dendroica pensylvanica*
 Great Reed, see *Acrocephalus arundinaceus*
 Kentucky, see *Oporornis formosus*
 Marsh, see *Acrocephalus palustris*
 Nashville, see *Vermivora ruficapilla*
 Orange-crowned, see *Vermivora celata*
 Palm, see *Dendroica palmarum*
 Prairie, see *Dendroica discolor*
 Prothonotary, see *Protonotaria citrea*
 Swainson's, see *Lymnodynastes swainsonii*
 Tennessee, see *Vermivora peregrina*
 Wilson's, see *Wilsonia pusilla*
 Yellow, see *Dendroica petechia*
 Yellow-rumped, see *Dendroica coronata*
 Yellow-throated, see *Dendroica dominica*

Water flux, 324–331
 Waterfowl, 198–203, 803–806
 Waterthrush, Northern, see *Seiurus noveboracensis*
 Watkins, Barry P., see Ryan, Peter G.
 Watts, Bryan D., Nest-site characteristics of Yellow-crowned Night-Herons in Virginia, 979–983
 Weather conditions, 913–921
 Weathers, Wesley W., and Stiles, F. Gary, Energetics and water balance in free-living tropical hummingbirds, 324–331
 Weathers, Wesley W., and Sullivan, Kimberly A., Nest attentiveness and egg temperature in the Yellow-eyed Junco, 628–633
 Weaver, African Village, see *Ploceus cucullatus*
 Webb, Elizabeth A., see Maurer, Brian A.
 Webb, Sophie, see Howell, Steve N. G.
 Webster, Marcus D., Overnight mass loss of wintering Verdins, 983–985
 Weight, 210–214
 Welsh, Daniel, see Ohlendorf, Harry M.
 Western North America, 712–716
 Westin, J., see Silverin, B.
 Wheatear, Northern, see *Oenanthe oenanthe*
 Whelan, Christopher J., An experimental test of prey distribution learning in two paruline warblers, 113–119
 Whelton, Bartlett D., Distribution of the Boreal Owl in eastern Washington and Oregon, 712–716
 Whimbrel, see *Numenius phaeopus*
 Whistling-Duck, Black-bellied, see *Dendrocygna autumnalis*
 Whitacre, David F., Conditional use of nest structures by White-naped and White-collared swifts, 813–825
 White, Clayton M., A reassessment of the first nesting record of the Peregrine Falcon in Ecuador, 995–997
 White-eye, Bridled, see *Zosterops conspicillatus*
 Golden, see *Cleptornis marchei*
 Wiens, John A., see Rotenberry, John T.
 Wigeon, Chiloe, see *Anas sibilatrix*
 Wiggers, Ernie P., see Renken, Rochelle B.
 Wilder, Steven E., see Roppe, Jerry A.
 Willet, see *Catoptrophorus semipalmatus*
 Williams, Martha L., Hothem, Roger L., and Ohlendorf, Harry M., Recruitment failure in American Avocets and Black-necked Stilts nesting at Kesterson Reservoir, California, 1984–1985, 797–802
Wilsonia canadensis, 557
 citrina, 546
 pusilla, 221
 Wind, 100–107
 Wing length, 210–214
 molt, 131–138
 Winnett-Murray, Kathy, see McDonald, David
 Winter, 766–776
 limitation, 545–561
 territoriality, 545–561
 visitor, 214–215
 Wintering behavior, 156–177
 Witting, David, see Safina, Carl
 Wolf, Blair O., and Jones, Stephanie L., Great Blue Heron deaths caused by predation on Pacific lamprey, 482–484

- Wong, Marina, The implications of germinating acorns in the granaries of Acorn Woodpeckers in Panama, 724–726
- Woodcreeper, Ivory-billed, see *Xiphorhynchus flavigaster*
- Woodin, Marc C., and Swanson, George A., Foods and dietary strategies of prairie-nesting Ruddy Ducks and Redheads, 280–287
- Woodnymph, Bronze-tailed Crowned, see *Thalurania colombica*
- Woodpecker, Acorn, see *Melanerpes formicivorus*
Downy, see *Picoides pubescens*
Golden-fronted, see *Melanerpes aurifrons*
Hairy, see *Picoides villosus*
Pileated, see *Dryocopus pileatus*
Red-bellied, see *Melanerpes carolinus*
Red-cockaded, see *Picoides borealis*
Red-headed, see *Melanerpes erythrocephalus*
- Wood-Pewee, Eastern, see *Contopus virens*
Western, see *Contopus sordidulus*
- Wood-Quail, Black-breasted, see *Odontophorus leucolaemus*
Marbled, see *Odontophorus gujanensis*
- Wren, Bewick's, see *Thyromanes bewickii*
Cactus, see *Campylorhynchus brunneicapillus*
Carolina, see *Thryothorus ludovicianus*
Clarion, see *Troglodytes tanneri*
House, see *Troglodytes aedon*
Marsh, see *Cistothorus palustris*
Rock, see *Salpinctes obsoletus*
Rufous-browed, see *Troglodytes rufociliatus*
- Wrentit, see *Chamaea fasciata*
- Wright, Anthony L., see Bull, Evelyn L.
- X**
- Xenopsaris albinucha*, 446
Xenopsaris, White-naped, see *Xenopsaris albinucha*
Xiphocolaptes major, 1003
Xiphorhynchus flavigaster, 1008–1009
- Y**
- Yellowthroat, Common, see *Geothlypis trichas*
- Yokel, David A., Intrasexual aggression and the mating behavior of Brown-headed Cowbirds: Their relation to population densities and sex ratios, 43–51
- Young, Andrew D., Body composition and diet of breeding female Common Crows, 671–674
- Young, Leonard S., see Engel, Kathleen A.
- Yucatan, 217–219, 585–591, 592–597
Peninsula, 515–544
- Z**
- Zenaida auriculata*, 1003
macroura, 1001, 1007
- Zicus, Michael C., and Hennes, Steven K., Nest prospecting by Common Goldeneyes, 807–812
- Zonotrichia albicollis*, 108, 121, 462, 984
capensis, 462–465, 1002–1005
leucophrys, 108–112, 203–205, 250, 397–407, 462, 604, 630, 708, 1002
- Zosterops conspicillatus*, 187–192
lateralis, 191
- Zusi, Richard L., A modified jaw muscle in the Maui Parrotbill (*Pseudonestor*: Drepanididae), 716–720