

INDEX TO VOLUME 91

Compiled by James J. Dinsmore

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

- Abnormality of, *Chasiempis sandwichensis*, 841
Loxia leucoptera, 624–626
Acanthis flammea, 761–764
Accipiter cooperii, 163–166, 834
 gentilis, 309, 760
 striatus, 760
Actitis macularia, 158
Activity budgets of, tropical birds, 722–726
Aegolius acadicus, 783–795
Aeronautus saxatalis, 732
Age determination of, *Aythya affinis*, 243–254
 Empidonax difficilis, 111–131
 E. flavescens, 111–131
Agelaius phoeniceus, 99–100, 104–106, 158, 540, 562, 808–816, 843–844
Aimophila aestivalis, 100, 106
Ainley, D. G., see Lewis, T. J., et al.
Ajaia ajaja, 601, 605, 607, 608
Akalat, Equatorial, 166–167
Alaska, 175–177, 185–186, 417, 624–626, 737–746, 757–775
Alauda arvensis, 832–835
Albatross, Black-browed, 844–845
Alca torda, 847–848
Aldrich, John W., review by, 439–441
Alethe, Brown-chested, 166
Alethe poliocephala, 166
Alexander, Judith, and William T. Keeton, Clock-shifting effect on initial orientation of pigeons, 370–374
Alison, R. M., Oldsquaw homing in winter, 188
Alle alle, 432
Amadon, Dean, In memoriam: Robert Cushman Murphy, 1–9
Amazilia viridigaster, 626
American Ornithologists' Union
 Amendments, 391–392
 Attendance, 392–395
 Awards, 387–389
 Committee on the scientific and educational use of wild birds, 817
 Committees, 406–407
 Editorial matters, 390–391
 Membership, 389–390
 Officers, 387, 405–406
 Proceedings of the 91st stated meeting, 387–410
 Public session, 395–402
 Resolutions, 403–405
 Treasurer's report, 390, 408–410
Ammodramus savannarum, 486
Ammospiza maritima, 100, 106
Amphispiza bilineata, 167
Anabacerthia amurotis, 430
Anas acuta, 278–290, 382, 488–493, 760
 americana, 377, 488–493
 clypeata, 423–427, 489, 492
 crecca, 489
 discors, 489–493
 flavirostris, 628
 georgica, 628
 platyrhynchos, 158, 378, 382, 488–493, 760
 puna, 628
 rubripes, 158
 strepera, 375–386, 488–493
Anatomy and embryology, periodical literature on, 211–213, 650–652, 872

- Anatomy and morphology of, bony stapes, 427-429
- Dendrocygna arcuata*, 86-94
- D. autumnalis*, 86-94
- D. bicolor*, 86-94
- D. eytoni*, 86-94
- Lagopus lagopus*, 738-741, 747-748
- L. leucurus*, 738-741, 747-748
- L. mutus*, 738-741, 747-748
- suboscines, 427-429
- Anderson, Mary, Emma's search for something (rev.), 648
- Andrle, Robert F., White-throated Sparrow nesting again in downtown Buffalo, New York, 837-839
- Angle, J. Phillip, see Watson, George E., et al.
- Ani, Greater, 430
- Annual cycle of, *Ptychoramphus aleuticus*, 296-301
- Tijucca atra*, 362-363
- Zonotrichia albicollis*, 44-53
- Annotated lists, see Distribution and —
- Anous stolidus*, 694, 840-841
- Aphelocoma ultramarina*, 841-843
- Aquila chrysaetos*, 180-181, 532-534, 728, 834
- Archibald, Herbert L., Directional differences in the sound intensity of Ruffed Grouse drumming, 517-521
- Archilochus colubris*, 152, 419, 546
- Argentina, 601-613, 844-845
- Arizona, 162, 167, 171, 619-624
- Armstrong, Edward A., Saint Francis: nature mystic (rev.), 868
- Asio flammeus*, 533
- Asyndesmus lewis*, 171
- Attila, Gray-hooded, 430
- Rufous-tailed, 431
- Attila rufus*, 430
- Auk, Great, 432
- Auklet, Cassin's, 291-306
- Aulacorhynchus prasinus*, 700-701
- Austin, Elizabeth S., reviews by, 204, 450, 648, 649, 870, 871
- Austin, George T., and E. Linwood Smith, Use of burrows by Brown Towhees and Black-throated Sparrows, 167
- Austin, Jr., Oliver L., review by, 648
- Austin, Timothy O., review by, 870-871
- Aythya affinis*, 243-254, 489-493
- americana*, 377, 488-493
- valisineria*, 377, 488-493
- Bailey, Robert O., and Bruce D. J. Batt, Hierarchy of waterfowl feeding with Whistling Swans, 488-493
- Baker, John Hopkinton, obituary of, 679-680
- Balda, Russell P., review by, 436-439
- Ballard, Warren B., and Robert J. Robel, Reproductive importance of dominant male Greater Prairie Chickens, 75-85
- Banks, Richard C., Proceedings of the ninety-first stated meeting of the American Ornithologists' Union, 387-410
- Barruel, P., Birds of the world. Their life and habits (rev.), 643-644
- Batt, Bruce D. J., see Bailey, Robert O., and —
- Beason, Robert C., and Edwin C. Franks, Breeding behavior of the Horned Lark, 65-74
- Behavior, activity patterns, 364-365, 383-384, 785, 790-792, 794-795
- aggressive, 54-64, 75-85
- antagonistic, 37
- anting, 537-563
- antipredator, 533-535
- bathing, 545-547
- colony site selection, 602, 608, 609
- copulatory, 75-85, 171, 620-623
- courtship, 37, 68-69, 377-378
- courtship feeding, 69
- diving, 415-417
- dusting, 544
- egg recognition, 796-807
- feeding, 571-574, 722-726
- flight, 494-506
- flocking, 273-274
- food stealing, 171
- food storing, 171
- foraging, 36, 145-150, 488-493, 614, 705-721, 827-829, 836-837
- homing, 188

- incubation, 596, 607
 individual distance, 637–639
 individual recognition, 189–191
 interspecific, 54–64, 169–170, 180–181,
 488–493, 607, 608
 lek, 75–85, 364–369
 migratory, 44–53
 mobbing, 608, 843–844
 mutualistic, 180–181
 nest defense, 598
 nesting, 841–843
 nestling, 319–322, 597–598
 nest piracy, 605–606
 nest site selection, 602–605, 608–610
 periodical literature on, 213–217, 451–
 456, 872–875
 prenesting, 602
 reproductive, 75–85
 reproductive isolating, 54–64
 roosting, 634–636
 site attachment, 423–427
 sleeping, 616
 soaring, 849
 social, 375–386
 social organization, 75–85
 sunbathing, 537–563
 temperature regulatory, 167
 territorial, 36–40, 67–68, 423–427
 vocal, 54–64, 65–67
Zugunruhe, 44–53
- Behavior of, *Aegolius acadicus*, 783–795
Agelaius phoeniceus, 540, 562, 843–844
Amphispiza bilineata, 167
Anas acuta, 488–493
A. americana, 488–493
A. clypeata, 423–427, 489, 492
A. crecca, 489
A. discors, 489–493
A. platyrhynchos, 488–493
A. strepera, 375–386, 488–493
Aphelocoma ultramarina, 841–843
Aquila chrysaetos, 180–181
Archilochis colubris, 546
Asyndesmus lewisi, 171
Aythya affinis, 489–493
A. americana, 488–493
A. valisineria, 488–493
Branta canadensis, 189–191, 491, 494–
 506
Bubulcus ibis, 836–837
- Buteo platypterus*, 319–322
Cardinalis cardinalis, 540, 541, 547, 549,
 553, 562–563
Carpodacus purpureus, 542, 546, 558,
 563
Casmerodus albus, 836–837
Cathartes aura, 849
Centrocercus urophasianus, 533–535
Centurus carolinus, 544, 546, 559–560
Certhia familiaris, 546, 563
Chordeiles minor, 543, 559
Coccycus americanus, 543–544, 552, 559
Colaptes auratus, 542, 546, 559
Colinus virginianus, 546, 559
Contopus virens, 546
Coragyps atratus, 595–600
Corvus brachyrhynchos, 171, 180–181,
 571–574
Cyanocitta cristata, 546, 553, 560, 563
Dendroica coronata, 542, 546, 551, 558,
 563
D. pensylvanica, 547
D. pinus, 540, 541, 546, 554, 561, 563
D. tigrina, 547
Dryocopus pileatus, 634–636
Dumetella carolinensis, 540, 542, 544,
 546, 553, 556, 559, 796–807
Egretta thula, 836–837
Eremophila alpestris, 66–72
Falco sparverius, 705–721, 843–844
Florida caerulea, 836–837
Gygis alba, 614, 616
Hesperiphona vespertina, 542, 546, 551,
 558
Hylocichla mustelina, 540, 542, 559
Icterus spurius, 546
Junco hyemalis, 542, 546, 551, 558, 563
Larus argentatus, 637–639
L. maculipennis, 602–611
L. pipixcan, 607, 608–611
Loxia curvirostra, 546
Melanerpes erythrocephalus, 560
Melospiza melodia, 546
Mimus polyglottos, 546, 560
Myiarchus crinitus, 559
Myospiza humeralis, 36–37
Olor columbianus, 488–493
Oryzoborus angolensis, 39–43
O. crassirostris, 38–39
Otus trichopsis, 620–623

- Oxyura dominica*, 415–417
O. jamaicensis, 489
Parus bicolor, 546, 560, 563
P. carolinensis, 546, 560, 563
Passer domesticus, 544, 547, 561–562
Pheucticus ludovicianus, 54–64, 547
P. melanocephalus, 54–64
Pica pica, 180–181
Pipilo erythrorthalmus, 540, 544, 547, 548, 562–563
P. fuscus, 167
Piranga rubra, 540, 543, 546, 551, 554–555, 559
Podiceps dominicus, 415–417
Podilymbus podiceps, 415–417
Quiscalus quiscula, 547, 549, 562, 563
Regulus calendula, 542, 558, 563
Rissa tridactyla, 827–829
Sialia sialis, 546, 554
Sitta carolinensis, 171, 542, 560
S. pusilla, 563
Sphyrapicus varius, 540, 546, 558
Spizella passerina, 547, 554, 563
Sturnus vulgaris, 547, 553, 561
Thalasseus sandvicensis, 273–274
Thryothorus ludovicianus, 544, 546, 560, 563
Tijuca atra, 364–367
Toxostoma rufum, 544, 546, 549, 553–554, 560–561, 563
Turdus migratorius, 540–542, 546, 548, 549, 553, 554, 561, 563
Tympanuchus cupido, 75–85
Vermivora peregrina, 547
Zenaida macroura, 546, 559, 563
Zonotrichia albicollis, 44–53, 541, 542, 546, 551, 554, 558–559, 563
Beightol, Donald R., see Samuel, David E., et al.
Belton, William, More new birds for Rio Grande do Sul, Brazil, 429–432; Two new southern migrants for Brazil, 820
Berger, Andrew J., Hawaiian birdlife (rev.), 198–200; review by, 449–450
Bermuda, 614–617
Best, Louis B., Blue racers prey on Field Sparrow nests, 168–169
Bierregaard, Jr., Richard O., Incomplete wing molt and erythrism in Red-tailed Hawks, 618–619
Bioenergetics of, Alaskan taiga birds, 757–775
Biology, General, periodical literature on, 226–229, 469–478, 884–890
Bittern, American, 179–180 Least, 751, 752
Blackbird, Brewer's, 732, 834 Red-winged, 99–100, 104–106, 158, 540, 562, 808–816, 843–844 Rusty, 761, 762, 763, 766
Blake, Charles H., obituary of David Lambert Lack, 239
Bluebird, Eastern, 152, 154, 546, 554
Bobolink, 152
Bobwhite, 99–100, 106, 546, 559
Bock, Walter J., editor of Reviews, 192–210, 433–450, 640–649, 850–871; reviews by, 207–208, 208–209, 434–435, 647–648, 855–859
Bolen, Eric G., see Rylander, Michael Kent, and —
Bombycilla cedrorum, 100, 152
garulus, 761
Bonasa umbellus, 421–423, 507–516, 517–521, 760, 762, 770
Bond, James, review by, 867–868
Booby, Blue-faced, 684, 685, 691, 694, 698
Blue-footed, 691
Brown, 681, 684, 685, 691, 694
Red-footed, 684, 685, 691, 694, 698
Botaurus lentiginosus, 179–180
Brachyramphus marmoratus, 10–23
Brain, Carlos W., see Samuel, David E., et al.
Branta canadensis, 189–191, 491, 494–506
Brazil, 360–369, 429–432, 820
Breeding of (see also Behavior, Breeding season, Breeding success, Clutch size, Incubation, Nest and nest site), *Aegialius phoeniceus*, 808–816
Aphelocoma ultramarina, 841–843
Brachyramphus marmoratus, 10–23
Buteo platypterus, 307–324
Dumetella carolinensis, 796–807
Eremophila alpestris, 68–74
Falco peregrinus, 727–736
Hirundo rustica, 776–782
Larus argentatus, 175

- Molothrus ater*, 829–830
Petrochelidon fulva, 776–782
P. pyrrhonota, 778–781
Rissa tridactyla, 173–174
Spiza americana, 348–359
Sterna dougallii, 255–277
S. hirundo, 255–277
S. paradisea, 255–277
Sula bassana, 175
Thalasseus sandvicensis, 255–277
Tringa glareola, 175–177
Zonotrichia albicollis, 837–839
- Breeding season of, *Brachyramphus marmoratus*, 10–23
Buteo platypterus, 308–309
Larus ridibundus, 257
Sterna dougallii, 257–260
S. hirundo, 257–260
S. paradisea, 257–260
Thalasseus sandvicensis, 257–260
tropical birds, 722–726
- Breeding success of, *Agelaius phoeniceus*, 811–814
Buteo platypterus, 320–322
Eremophila alpestris, 73
Falco peregrinus, 728–730, 734
Larus argentatus, 139–144
L. maculipennis, 608
L. marinus, 139–144
Spiza americana, 353–355
Spizella pusilla, 168–169
Sterna dougallii, 269–271
S. hirundo, 269–271
S. paradisea, 269–271
Thalasseus sandvicensis, 269–271
- British Columbia, 10–23, 825–827, 830
- British Honduras, 170–171
- Brown, Vinson, Henry G. Weston, Jr., and Jerry Buzzell, Handbook of California birds (rev.), 448–449
- Brown, William Y., Rabbit destruction of tern eggs, 840–841
- Browning, M. Ralph, see Watson, George E., et al.
- Bubo virginianus*, 834
- Bubulcus ibis*, 836–837
- Buckley, P. A., Recent specimens of western vagrants at Fire Island National Seashore, Long Island, New York, 181–185
- Bunting, Indigo, 152, 154, 158, 485–487
Lark, 177–178
Lazuli, 485
Little, 417
Orange-breasted, 178–179, 480
Painted, 485–487
Varied, 485
- Buphagus africanus*, 169–170
erythrorynchus, 169–170
- Burger, Joanna, Breeding biology and ecology of the Brown-headed Gull in Argentina, 601–613
- Burtt, Jr., Edward H., Success of two feeding methods of the Black-legged Kittiwake, 827–829
- Buteo brachyurus*, 95–110
jamaicensis, 309, 533, 618–619, 639, 834
lagopus, 834
nitidus, 163–166
platypterus, 307–324, 325–341, 849
- Butorides virescens*, 158
- Calamospiza melanocorys*, 177–178
- Calcarius ornatus*, 432
- Calidris ptilocnemis*, 175
- California, 291–306, 411–412, 639
- Calliphlox evelynae*, 849
- Calls, see Vocalizations
- Canvasback, 377, 488–493
- Cape Pigeon, 419–421
- Capella gallinago*, 760
- Capsiempis flaveola*, 431
- Caracara, Chimango, 608
Crested, 608
Mountain, 628
- Cardinal, 100, 105, 152, 418–419, 540, 541, 547, 549, 553, 562, 563
- Cardinalis cardinalis*, 100, 105, 152, 418–419, 540, 541, 547, 549, 553, 562, 563
- Carpodacus erythrinus*, 185–186
purpureus, 151, 152, 154, 542–543, 546, 558, 563
- Casmerodus albus*, 601, 605, 607–608, 836–837
- Cassidix major*, 105
- Catbird, Gray, 151, 152, 158, 540, 542, 544, 546, 553, 556, 559, 796–807
- Cathartes aura*, 598, 819, 849
- Catharus minimus*, 760, 763

- ustulatus*, 760, 762, 763, 764, 766, 768, 769
Catoptrophorus semipalmatus, 749
 Census methods, 757–761, 765–767, 771
 Central America, 681–699
Centrocercus urophasianus, 532–536
Centurus carolinus, 105, 544, 546, 559–560, 836
Certhia familiaris, 546, 563
Chaetura cinereiventris, 430
 pelagica, 152, 158, 839
Charadrius alexandrinus, 629
 alticola, 628–629
 vociferus, 100, 158
Chasiempis sandwichensis, 841
Chen hyperborea, 174
 rossi, 174
 Chickadee, Black-capped, 152, 760, 762, 763, 793
 Boreal, 760, 762
 Carolina, 546, 560, 563, 836
 Chile, 617–618
Chionis alba, 820
Chlidonias niger, 577, 684, 685, 692–695
Chloephaga melanoptera, 628
Chordeiles minor, 105, 152, 543, 559
Circus cyaneus, 339, 533, 834
Clangula hyemalis, 188
 Clapp, Roger B., The natural history of Gardner Pinnacles, Northwestern Hawaiian Islands (rev.), 449–450
 Clark, William S., Second record of the Kestrel (*Falco tinnunculus*) for North America, 172
 Clement, Roland C., obituary of John Hopkinton Baker, 679–680
 Cleptoparasitism by, *Stercorarius longicaudus*, 692
S. pomarinus, 690
 Clevenger, G. A., and Aryan I. Roest, Cannibalism in Red-tailed Hawk, 639
Clibanornis dendrocolaptoides, 430
 Clutch size of, *Agelaius phoeniceus*, 811–814
Brachyramphus marmoratus, 17–18
Eremophila alpestris, 72
Larus maculipennis, 606
Spiza americana, 353
Sterna dougallii, 262–266
S. hirundo, 262–266
S. paradisaea, 262–266
Thalasseus sandvicensis, 262–266
 tropical birds, 722–726
Coccyzus americanus, 99, 105, 152, 156, 186–188, 543–544, 552, 559, 749, 751
erythropthalmus, 152, 156, 186–188, 751
Colaptes auratus, 99, 152, 158, 542, 546, 559, 760, 762
Colinus virginianus, 99–100, 106, 546, 559
 Collins, C. T., review by, 450
 Colombia, 845
 Colorado, 177–178
Columba livia, 24–34, 370–374, 732, 839
Columbigallina passerina, 99, 106
 Competition, *Lagopus lagopus*, 743–744
L. leucurus, 743–744
L. mutus, 743–744
 Condor, Andean, 628
 Connecticut, 796–807, 843–844
 Conner, Richard N., Red-bellied Wood-pecker predation on nestling Carolina Chickadees, 836
 Conservation, see Management and —
 Constantz, George D., Robbing of breeding Lewis' Woodpecker food stores, 171
Contopus virens, 152, 546
sordidulus, 760
 Coot, American, 377, 628
 Slate-colored, 628
Coragyps atratus, 595–600
Corvus brachyrhynchos, 105, 151, 152, 155–158, 171, 180–181, 533, 571–574
caurinus, 826
corax, 760
 Costa Rica, 415–417, 681–699
 Cotinga, Black-and-gold, 360–369
 Shrike-like, 840
Coturnicops noveboracensis, 747, 752–755
 Cowan, P. J., Individual differences in alarm calls of Canada Geese leading broods, 189–191
 Cowbird, Brown-headed, 152, 829–830
 Cracraft, Joel, Systematics and evolution of the Gruiformes (class Aves). 3. Phylogeny of the suborder Grues (rev.), 862–865

- Craig, Jerry, see Enderson, James H., and ——
- Crane, Sandhill, 760, 770
- Crawford, Robert L., see Wiese, Jochen H., and ——
- Creeper, Brown, 546, 563
- Creighton, Phillip D., and David K. Porter, Nest predation and interference by Western Meadowlarks, 177–178
- Crossbill, Red, 546
White-winged, 624–626
- Cross-fostering experiment, 139–144
- Crotophaga major*, 430
- Crow, Common, 105, 151, 152, 155–158, 171, 180–181, 533, 571–574
Northwestern, 826
- Crypturellus parvirostris*, 429
- Cuckoo, Black-billed, 152, 156, 186–188, 751
Yellow-billed, 99, 105, 152, 156, 186–188, 543–544, 552, 559, 749, 751
- Cyanocitta cristata*, 105, 151, 152, 154–158, 546, 553, 560, 563
- Daption capense*, 419–421
- Dau, Christian P., and Daniel D. Gibson, Common Rose Finch, a first record for North America, 185–186
- Davis, David E., Emigrations of Northern Shrikes 1959–1970, 821–825
- Davis, John, review by, 448–449; obituary of Chester Converse Lamb, 479–480
- Deformity, see Abnormality
- Delacour, Jean, and Dean Amadon, Curassows and related birds (rev.), 445–448
- Delaware, 749, 750, 754
- Delnicki, Don, Ross' Goose-Snow Goose hybrid in south Texas, 174
- Demaree, Salome R., Eleanor L. Radke, and Janet L. Witzeman, Annotated field list birds of Maricopa County, Arizona (rev.), 210
- Dendrocincla fuliginosa*, 430
- Dendrocopos borealis*, 342–347
pubescens, 151, 152
villus, 760
- Dendrocygna arcuata*, 86–94
autumnalis, 86–94
bicolor, 86–94
eytoni, 86–94
- Dendroica caerulescens*, 411
cerulea, 694
chrysoparia, 411–412
coronata, 542, 546, 551, 558, 563, 694, 761–764, 766, 768
fusca, 411
pensylvanica, 547
petechia, 152, 156, 158, 694, 761, 763, 766, 768, 839
pinus, 105, 540, 541, 546, 554, 561, 563
striata, 100, 105, 761
tigrina, 547
townsendi, 761–764
- DeWolfe, Barbara B., see West, George C., and ——
- Diamond, Jared M., Avifauna of the Eastern Highlands of New Guinea (rev.), 192–194
- Dichromonassa rufescens*, 170–171
- Dickcissel, 106, 348–359
- Dimorphism, *Buteo platypterus*, 325–341
- Dinsmore, James J., Index to volume 91, 901–927
- Diomedea melanophris*, 844–845
- Diseases and parasites, periodical literature on, 217–218
- Distribution of, *Accipiter cooperii*, 163–166
- Alauda arvensis*, 832–835
- Amazilia viridigaster*, 626
- Anabacerthia amaurotis*, 430
- Anas flavirostris*, 628
- A. georgica*, 628
- A. puna*, 628
- Anous stolidus*, 694
- Attila rufus*, 430
- Aulacorhynchus prasinus*, 700–704
- Buteo nitidus*, 163–166
- Calcarius ornatus*, 432
- Calliphlox evelynae*, 849
- Capsiempis flaveola*, 431
- Carpodacus erythrinus*, 185–186
- Chaetura cinereiventris*, 430
- Charadrius alticola*, 628–629
- Chen rossi* × *C. hyperborea*, 174
- Chionis alba*, 820

- Chlidonias niger*, 684, 685, 694, 695
Chloephaga melanoptera, 628
Clibanornis dendrocolaptoides, 430
Crotophaga major, 430
Crypturellus parvirostris, 429
Dendrocincia fuliginosa, 430
Dendroica caerulescens, 411
D. cerulea, 694
D. chrysoparia, 411–412
D. fusca, 411
Dichromana rufescens, 170–171
Emberiza pusilla, 417
Empidonax minimus, 411
Endomychura craveri, 694, 697
Euscarthmus meloryphus, 431
Falco femoralis, 628
F. tinnunculus, 172
Fregata magnificens, 684, 685, 691
Fulica americana, 628
F. ardesiaca, 628
Fulmarus glacialis, 412
Gelochelidon nilotica, 845
Gygis alba, 614–617
Halocyptena microsoma, 684, 685, 691, 694, 695, 698
Hirundo rustica, 777–779
Icterus galbula, 182
Junco hyemalis, 183–184
Laniusoma elegans, 840
Larus atricilla, 684, 685, 693
L. californicus, 693
L. delawarensis, 575–594
L. heermanni, 693
L. marinus, 577
L. minutus, 577
L. occidentalis, 693
L. philadelphica, 693
L. pipixcan, 684, 685, 693, 695
L. serranus, 629, 630
Legatus leucophaius, 430
Lessonia rufa, 629
Metriopelia cecilae, 627
Mniotilla varia, 411
Muscisaxicola alpina, 629
Myiopagis caniceps, 431
Neoxolmis rufiventris, 820
Oceanites oceanicus, 684, 685, 690
Oceanodroma leucorhoa, 684, 685, 690
O. melania, 684, 685, 690–691, 694, 695, 698
O. tethys, 690, 694, 698
Parabuteo unicinctus, 429
Passerella iliaca, 184
Passerina leclancherii, 178–179, 480
Pelecanus occidentalis, 691
Petrochelidon fulva, 777–779
P. pyrrhonota, 778–781
Phaethon aethereus, 684, 685, 691
Phalaropus fulicarius, 684, 685, 691
P. lobatus, 684, 685, 692, 695
Phalcoboenus megalopterus, 628
Pheucticus melanocephala, 694
Philydor atricapillus, 430
Phoenicopterus chilensis, 628, 629, 630
Piprites pileatus, 430
Piranga ludoviciana, 182–183
P. rubra, 617–618
Plegadis ridgwayi, 628
Podiceps occipitalis, 629
P. rolland, 628, 629
Procellaria parkinsoni, 687–689, 694, 697, 698
Pseudattila phoenicurus, 431
Puffinus auricularis, 684, 685, 689, 694, 698
P. creatopus, 684, 685, 689, 694, 695, 698
P. gravis, 429
P. griseus, 689, 695
P. lherminieri, 684, 685, 689–690, 694, 695, 698
P. pacificus, 684, 685, 689, 694, 695, 698
P. puffinus, 684, 685, 689, 694, 698
Riparia riparia, 431
Rissa tridactyla, 173–174
Seiurus noveboracensis, 411
Speotyto cunicularia, 636–637
Sporophila minuta, 431
S. plumbea, 431
Stercorarius longicaudus, 684, 685, 692–693, 697
S. parasiticus, 692
S. pomarinus, 684, 685, 692, 694, 695
Sterna albifrons, 693
S. anaethetus, 693
S. forsteri, 693
S. fuscata, 684, 685, 693, 694
S. hirundo, 684, 685, 693
S. paradisaea, 429
Sula bassana, 175

- S. dactylatra*, 684, 685, 691, 694, 698
S. leucogaster, 684, 685, 691
S. nebouxii, 691
S. sula, 684, 685, 691, 694, 698
Tachycineta albiventer, 431
Tangara seledon, 431
Thalasseus elegans, 693–694
T. maximus, 693
Tityra inquisitor, 430
Tringa glareola, 175–177
Turdus grayi, 839–840
T. leucomelas, 431
Vanellus resplendens, 628
Vermivora peregrina, 411
Vireo bellii, 181–182
Vultur gryphus, 628
Xema sabini, 684, 685, 693, 694, 695
Zenaida macroura, 694
Zonotrichia albicollis, 837–839
Z. capensis, 627–628
- Distribution and annotated lists, periodical literature on, 218–222, 456–460, 652–654, 875–877
Dolichonyx oryzivorus, 152
 Donahue, Paul K., Gull-billed Tern in Caribbean South America, 845
 Dove, Ground, 99, 106
 Mourning, 99, 105, 546, 559, 563, 694, 732
 Rock, 732
 Dovekie, 432
 Drumming, *Bonasa umbellus*, 507–516, 517–521
Dryocopus pileatus, 105, 634–636
 DuBois, Alexander Dawes, Glimpses of bird life (rev.), 649
 Duck, Black, 158
 Black-bellied Whistling, 86–94
 Fulvous Whistling, 86–94
 Masked, 415–417
 Plumed Whistling, 86–94
 Ruddy, 489
 Wandering Whistling, 86–94
Dumetella carolinensis, 151, 152, 158, 540, 542, 544, 546, 553, 556, 559, 796–807
 Dwyer, Thomas J., Social behavior of breeding Gadwalls in North Dakota, 375–386
- Eagle, Bald, 825–827, 834
 Golden, 180–181, 532–534, 728, 834
 Monkey-eating, 191
 Ecology,
 ecological separation, 169–170
 habitat selection, 161–162
 urban bird populations, 151–160
 Ecology and populations, periodical literature on, 222–226, 461–469, 654–656, 877–884
 Ecology of, *Aphelocoma ultramarina*, 841–843
Diomedea melanophris, 844–845
Larus maculipennis, 601–613
Myospiza humeralis, 35–43
Oryzoborus angolensis, 35–43
O. crassirostris, 35–43
Setophaga ruticilla, 161–162
 Ectoparasites of, North Carolina birds, 558–563
 Edelstam, C., (ed.), The visible migration of birds at Ottenby, Sweden (rev.), 646–647
 Egg-laying period, gulls, 610
 Larus maculipennis, 606
 Eggs, description and measurements, *Accipiter cooperii*, 163–166
Buteo nitidus, 163–166
Dumetella carolinensis, 796–807
Eremophila alpestris, 72
Falco peregrinus, 730–732, 734–735
Phasianus colchicus, 522–531
Pithecophaga jefferyi, 191
Sterna hirundo, 417–418
 Egg volume, 132–138
 Egret, Cattle, 836–837
 Great, 601, 605, 607, 608, 836–837
 Reddish, 170–171
 Snowy, 601, 605, 607–608, 836–837
Egretta thula, 601, 605, 607–608, 836–837
 Eisenmann, E., review by, 203–204;
 Pinguinus and *Alle* validated as generic names for Great Auk and Dovekie respectively, 432
Elaenia, Gray, 431
Elepaio, 841
El Salvador, 681–699
Emberiza pusilla, 417
Emberizoides herbicola, 35, 42
 Embryology, see Anatomy and ——

- Emigration of, *Lanius excubitor*, 821–825
Nyctea scandiaca, 821–825
- Emison, William B., see White, Clayton M., et al.
- Empidonax alnorum*, 760, 762, 763, 768
difciliis, 111–131
flavescens, 111–131
hammondii, 760, 762, 763
minimus, 152, 154–155, 411, 839
- Enderson, James H., and Jerry Craig, Status of the Peregrine Falcon in the Rocky Mountains in 1973, 727–736
- Endomychura craveri*, 694, 697
- Engholm, Eva, Bird infirmary (rev.), 648
- England, 255–277
- Eremophila alpestris*, 65–74, 177–178
- Ethiopia, 423
- Eudocimus albus*, 423
- Euphagus carolinus*, 761–763, 766
cyanocephalus, 732, 834
- Euscarthmus meloryphus*, 431
- Eveleigh, Eldon, see Threlfall, William, et al.
- Evolution of, suboscines, 427–429
- Evolution and genetics, periodical literature on, 656–660
- Eye color, *Aythya affinis*, 243–254
- Falco femoralis*, 628
mexicanus, 532–533, 728
peregrinus, 176, 727–736
rusticola, 820–821
spurvierius, 152, 156–157, 694, 705–721, 762, 843–844
tinunculus, 172
- Falcon, Aplomado, 628
Peregrine, 176, 727–736
Prairie, 532–533, 728
- Fat deposition, *Zonotrichia albicollis*, 44–53
- Feathers, see Molts and plumages
- Feduccia, Alan, Morphology of the bony stapes in New and Old World suboscines: new evidence for common ancestry, 427–429; Evolutionary trends in the neotropical ovenbirds and woodhewers (rev.), 855–859
- Feeding adaptations of, *Dendrocygna arcuata*, 86–94
D. autumnalis, 86–94
D. bicolor, 86–94
D. eytoni, 86–94
- ffrench, Richard, A guide to the birds of Trinidad and Tobago (rev.), 867–868
- Finch, Common Rose, 185–186
Grassland Yellow-, 35, 39, 42
- Purple, 151, 152, 154, 542–543, 546, 558, 563
- Firth, Jr., Roderick, Experimental cross-fostering of Herring Gull and Great Black-backed Gull chicks, 139–144
- Flamingo, Chilean, 628, 629, 630
- Fledging period, *Coragyps atratus*, 597–599
- Fledging success, *Agelaius phoeniceus*, 811–814
Larus argentatus, 139–144
L. delawarensis, 584–585, 590
L. marinus, 139–144
Spiza americana, 354–355
Sterna dougallii, 268–271
S. hirundo, 268–271
S. paradisea, 268–271
Thalasseus sandvicensis, 268–271
- Flicker, Common, 99, 152, 158, 542, 546, 559, 760, 762
- Flight formation of, *Branta canadensis*, 494–506
- Flight speed of, *Eudocimus albus*, 423
Fregata magnificens, 564–570
Plegadis falcinellus, 423
Threskiornis aethiopica, 423
- Florida, 95–110, 179–180, 186–188, 418–419, 485–487, 564–570, 751, 754, 808–816, 818–820, 849
- Florida caerulea*, 836–837
- Flugum, Charles T., Birding from a tractor seat (rev.), 648–649
- Flycatcher, Alder, 760, 762, 763, 768
Great Crested, 105, 559
Hammond's, 760, 762, 763
Least, 152, 154–155, 411, 839
Olive-sided, 760
Piratic, 430
Western, 111–131
Yellowish, 111–131

- Foliage-gleaner, Black-capped, 430
 White-browed, 430
- Food habits (see also Foraging)
Aegolius acadicus, 793
Anas acuta, 278–290
Aquila chrysaetos, 180–181
Archilochus colubris, 419
Buteo brachyurus, 99–101, 106–107
B. platypterus, 317–319, 329–330
Cardinalis cardinalis, 418–419
Centurus carolinus, 836
Corvus brachyrhynchos, 180–181
Falco peregrinus, 732
Haliaeetus leucocephalus, 825–827
Icterus chrysater, 163
I. cucullatus, 162
I. galbulus, 162–163
I. parisorum, 162
I. spurius, 162
Lagopus lagopus, 739–745
L. leucurus, 740–745
L. mutus, 739–745
Larus argentatus, 848
L. marinus, 848
Leucopterus albicollis, 845–846
Myospiza humeralis, 36
Oryzoborus angolensis, 40
O. crassirostris, 40
Pica pica, 180–181
Ptychoramphus aleuticus, 293–294
Rissa tridactyla, 828
Rostrhamus sociabilis, 818–820
Spiza americana, 351–352
Sporophila castaneiventris, 36
S. intermedia, 40
S. minuta, 40
Sturnella neglecta, 177–178
Tijua atra, 363
Zarhynchus wagleri, 163
- Foraging of, *Anas acuta*, 283–284
Asyndesmus lewisi, 171
Bubulcus ibis, 836–837
Buphagus africanus, 169–170
B. erythrorhynchus, 169–170
Buteo brachyurus, 101–106
Casmerodus albus, 836–837
Corvus brachyrhynchos, 171
Egretta thula, 836–837
Falco sparverius, 705–721
Florida caerulea, 836–837
- Motacilla aguimp*, 169–170
Myospiza humeralis, 36
Otus asio, 145–150, 172–173
Oryzoborus angolensis, 40–42
O. crassirostris, 40–42
Puffinus lherminieri, 188–189
Rissa tridactyla, 827–829
Tringa hypoleucos, 169–170
Tyto alba, 145–150, 172–173
- Forbes, James E., and Dwain W. Warner,
 Behavior of a radio-tagged Saw-whet Owl, 783–795
- Forshaw, Joseph M., Parrots of the world
 (rev.), 850–852
- Fossils, *Botaurus columbianus*, 179–180
Falco rusticolus, 820–821
Palaeophoxys columbiana, 179–180
Tyto alba, 179–180
- Foster, M. S., Rain, feeding behavior, and
 clutch size in tropical birds, 722–726
- Franks, Edwin C., see Beason, Robert C.,
 and ——
- Fratercula arctica*, 847
- Fregata magnificens*, 564–570, 681, 684,
 685, 691
- Fretwell, Stephen D., Populations in a
 seasonal environment (rev.), 204–207
- Frigatebird, Magnificent, 564–570, 681,
 684, 685, 691
- Fulica americana*, 377, 628
ardeziaca, 628
- Fulmar, Northern, 412
Fulmarus glacialis, 412
- Gadwall, 375–386, 488–493
- Gambs, Roger D., see Jenni, Donald A.,
 and ——
- Gannet, 175
- Garbutt, Allan, and A. L. A. Middleton,
 Molt sequence of captive Ruffed Grouse, 421–423
- Gardner, Alfred L., see O'Neill, John P.,
 and ——
- Gavia arctica*, 413–415, 825–827
immer, 413–415
- Gelochelidon nilotica*, 845
- Genetics, see Evolution and ——
- Georgia, 836–837
- Geothlypis trichas*, 105, 158

- Gibson, Daniel D., see Dau, Christian P., and ——
- Gill, Frank B., Inter-island variation in the Mascarene White-eye *Zosterops borbonica* (rev.), 441–443
- Glutz von Blotzheim, Urs N., Kurt M. Bauer, and Einhard Bezzel, Handbuch der Vögel Mitteleuropas, Galiformes und Gruiformes (rev.), 434–435
- Gnatcatcher, Blue-gray, 99
- Godwit, Marbled, 167
- Goldfinch, American, 100, 152
- Goodwin, Derek, see Snow, David W., and ——
- Goose, Andean, 628
- Canada, 189–191, 491, 494–506
- Lesser Snow, 174
- Ross', 174
- Goshawk, 309, 760
- Gould, Lisa Lofland, and Frank Heppner, The vee formation of Canada Geese, 494–506
- Gould, Margaret, Gannet on Kent Island, New Brunswick, 175
- Grackle, Boat-tailed, 105
- Common, 152, 158, 547, 549, 562–563
- Grass-finch, Wedge-tailed, 35, 42
- Grassquit, Blue-black, 36, 38
- Grebe, Least, 415–417
- Pied-billed, 415–417
- Red-necked, 760, 770
- Rolland's, 602, 605
- Silvery, 602–605, 629
- White-tufted, 628, 629
- Greenberg, D., see Lewis, T. J., et al.
- Greenberg, R., see Lewis, T. J., et al.
- Grocki, Darlene R. J., and David W. Johnston, Chlorinated hydrocarbon pesticides in North American cuckoos, 186–188
- Grosbeak, Black-headed, 54–64, 694
- Evening, 542, 546, 551, 554, 558
- Pine, 761, 762, 770
- Rose-breasted, 54–64, 152, 156, 158, 547
- Groundcreeper, Canebrake, 430
- Ground-Dove, Bare-faced, 627
- Ground-tyrant, Plain-capped, 629
- Grouse, Ruffed, 421–423, 507–516, 517–521, 760, 762, 770
- Sage, 532–536
- Grubb, Jr., Thomas C., Individual distance in the Herring Gull, 637–639
- Grus canadensis*, 760, 770
- Gruson, Edward S., Words for birds: a lexicon of North American birds with biographical notes (rev.), 443–445
- Guatemala, 681–699, 845–846
- Gular pouch of, *Ptychoramphus aleuticus*, 291–306
- Gull, Andean, 629, 630
- Black-headed, 255–257, 260, 272, 275
- Bonaparte's, 693
- Brown-hooded, 601–613
- California, 693
- Franklin's, 601–603, 608–611, 684, 685, 692, 693, 695
- Glaucous-winged, 826
- Great Black-backed, 139–144, 577, 580, 848
- Heermann's, 693
- Herring, 139–144, 158, 175, 255, 432, 577, 580, 637–639, 846–849
- Laughing, 684, 685, 693
- Lesser Black-backed, 255
- Little, 577
- Mew, 760, 770
- Ring-billed, 575–594, 848
- Sabine's, 684, 685, 693, 694, 695
- Western, 693
- Guyana, 35–43, 626
- Gygis alba*, 614–617
- Gymnorhinus cyanocephala*, 732
- Gyrfalcon, 820–821
- Habitat of, *Aegolius acadicus*, 786–789, 793–794
- Buteo brachyurus*, 97–99
- Emberizoides herbicola*, 35
- Larus maculipennis*, 601–605, 607–610
- Myospiza humeralis*, 35
- Oryzoborus angolensis*, 39
- O. crassirostris*, 38
- Pheucticus ludovicianus*, 55
- P. melanocephalus*, 55
- Sicalis luteola*, 35
- Spiza americana*, 350–351
- Sporophila castaneiventris*, 35
- Tijucca atra*, 362

- Haliaeetus leucocephalus*, 825–827, 834
Halocyptena microsoma, 684, 685, 691, 694, 695, 698
 Hamas, Michael J., Human incursion and nesting sites of the Belted Kingfisher, 835–836
 Hardy, John William, Letter to the editor, 480; review by, 865–867
 Harmeson, Janet P., Breeding ecology of the Dickcissel, 348–359
 Hartzler, Jonathan E., Predation and the daily timing of Sage Grouse leks, 532–536
 Hatch, Jeremy J., Homing experiments with Audubon's Shearwaters, 830–832
 Hatching success of, *Larus argentatus*, 139–144
 L. marinus, 139–144
 Phasianus colchicus, 522–531
 Sterna dougallii, 266–267
 S. hirundo, 266–267
 S. paradisaea, 266–267
 Thalasseus sandvicensis, 266–268
 Hatler, David F., Bald Eagle preys upon Arctic Loon, 825–827
 Hauser, Doris C., see Potter, Eloise F., and ——
 Haverschmidt, F., Great Kiskadee nesting in an old woodpecker hole, 639
 Hawaii, 840–841, 841
 Hawk, Bay-winged, 429
 Broad-winged, 307–324, 325–341, 849
 Cooper's, 163–166, 834
 Gray, 163–166
 Marsh, 339, 533, 834
 Red-tailed, 309, 533, 618–619, 639, 834
 Rough-legged, 834
 Sharp-shinned, 760
 Short-tailed, 95–110
 White, 845–846
 Heintzelman, Donald S., Finding birds in Trinidad and Tobago (rev.), 450; and Robert MacClay, Turkey Vultures thermal soaring into opaque clouds, 849
 Helms, Carl W., see Kuenzel, Wayne J., and ——
 Heppner, Frank, see Gould, Lisa Lofland, and ——
 Heron, Green, 158
 Little Blue, 836–837
Hesperiphona vespertina, 542, 546, 551, 554, 558
 Higgins, Kenneth F., Prolonged incubation period by a Marbled Godwit, 167
Himantopus himantopus, 608
Hirundo rustica, 776–782
 Hjorth, Ingemar, Reproductive behavior in Tetraonidae, with special reference to males (rev.), 196–198
 Holland, Daniel H., see Smith, Dwight G., and ——
 Home range of, *Aegolius acadicus*, 784–787, 793–794
 Homing of, *Columba livia*, 24–34
 Puffinus lherminieri, 830–832
 Horner, Kenneth O., review by, 646–647
 Howe, Henry F., Age-specific differences in habitat selection by the American Redstart, 161–162
 Hubbard, John P., The status of the Gray Hawk in New Mexico, 163–166; review by, 194
 Hummingbird, Green-bellied, 626
 Ruby-throated, 152, 419, 546
 Husar, Sandra L., see Ligon, J. David, and ——
 Hybrids and hybridization, *Chen rossi* × *C. hyperborea*, 174
 Passerina cyanea × *P. ciris*, 485–487
 Pheucticus ludovicianus × *P. melanocephalus*, 60–61
Hydroprogne caspia, 577, 580
Hylocichla mustelina, 152, 540, 542, 559
 Ibis, Glossy, 423
 Puna, 628
 Sacred, 423
 White, 423
 White-faced, 601, 603–605, 607
Icterus chrysater, 163
 cucullatus, 162
 galbula, 151, 152, 156, 158, 162–163, 182
 parisorum, 162
 spurius, 162, 546
 Identification of, *Charadrius alexandrinus*, 629
 C. alticola, 629

- Gavia arctica*, 413–415
G. immer, 413–415
- Illinois, 65–74, 168–169, 171, 348–359, 822
- Incubation and incubation period,
Brachyramphus marmoratus, 19
Buteo platypterus, 312–315
Coragyps atratus, 595–596
Eremophila alpestris, 72–73
Limosa fedoa, 167
Sterna dougallii, 266
S. hirundo, 266
S. paradisaea, 266
Thalasseus sandvicensis, 266
- Indiana, 822
- Iowa, 822–824
- Iridoprocne bicolor*, 100, 152, 154, 158
- Ixobrychus exilis*, 751, 752
- Ixoreus naevius*, 760, 762–764, 766
- Jackson, Jerome A., review by, 200–202; Gray rat snake versus Red-cockaded Woodpeckers: predator-prey adaptations, 342–347
- Jaeger, Long-tailed, 684, 685, 692–693, 697
- Parasitic, 692
- Pomarine, 682, 684, 685, 687, 690, 692, 694, 695
- Jaques, Florence Page, Francis Lee Jaques: Artist of the wilderness world (rev.), 868–869
- Jay, Blue, 105, 151, 152, 154–158, 546, 560, 563
- Gray, 760, 762, 770
- Mexican, 841–843
- Piñon, 732
- Jehl, Jr., Joseph R., Aerial feeding by a shearwater, 188–189; The near-shore avifauna of the Middle American west coast, 681–699
- Jenni, Donald A., and Roger D. Gambs, Diving times of grebes and Masked Ducks, 415–417
- Johnsgard, Paul A., Grouse and quails of North America (rev.), 439–441; review by, 445–448
- Johnson, A. W., Supplement to The birds of Chile and adjacent regions of Argentina, Bolivia and Peru (rev.), 203–204
- Johnson, Ned K., Molt and age determination in Western and Yellowish Flycatchers, 111–131
- Johnston, David W., see Grocki, Darlene R. J., and —
- Jonkel, George M., and Olin Sewall Pettingill, Jr., Retraction of a longevity record for a 36-year-old Herring Gull, 432
- Junco, Dark-eyed, 183–184, 542, 546, 551, 558, 563, 761–764, 766, 768
- Junco hyemalis*, 183–184, 542, 546, 551, 558, 563, 761–764, 766, 768
- Kale, II, Herbert W., editor of Periodical Literature, 211–238, 451–478, 650–678, 872–897; see Sykes, Jr., Paul W., and —
- Kansas, 75–85
- Kaufman, Donald W., Differential owl predation on white and agouti *Mus musculus*, 145–150; Differential predation on active and inactive prey by owls, 172–173
- Keeton, William T., see Alexander, Judith, and —
- Keith, Stuart, review by, 852–855
- Kendeigh, S. Charles, A symposium on the House Sparrow (*Passer domesticus*) and the European Tree Sparrow (*P. montanus*) in North America (rev.), 859–861; and J. Pinowski (eds.), Productivity, population dynamics, and systematics of granivorous birds (rev.), 861–862
- Kenya, 166–167
- Kestrel, 172
 American, 152, 156–157, 694, 705–721, 762, 843–844
- Kiff, Julia L., see Kiff, Lloyd F., and —
- Kiff, Lloyd F., and Julia L. Kiff, First specimen of Reddish Egret from British Honduras, 170–171
- Kilham, Lawrence, Loud vocalizations by Pileated Woodpeckers on approach to roosts or nest holes, 634–636

- Killdeer, 100, 158
 Kingbird, Eastern, 105, 152, 158
 Kingfisher, Belted, 760, 835-836
 Kinglet, Golden-crowned, 830
 Ruby-crowned, 542, 558, 563, 760, 762-764, 768
 Kiskadee, Great, 639
 Kite, Snail, 608
 Everglade, 818-820
 Kittiwake, Black-legged, 173-174, 827-829, 846-849
 Knos, Carl J., and Allen R. Stickley, Jr.,
 Breeding Red-winged Blackbirds in
 captivity, 808-816
 Koch, Tankred, Anatomy of the chicken
 and domestic birds (rev.), 647-648
 Krapu, Gary L., Feeding ecology of Pin-tail hens during reproduction, 278-290
 Kroodsma, Roger L., Species-recognition
 behavior of territorial male Rose-breasted and Black-headed Grosbeaks (*Pheucticus*), 54-64
 Kuenzel, Wayne J., and Carl W. Helms,
 An annual cycle study of tan-striped and white-striped White-throated Sparrows, 44-53
- Labrador, 173-174
 Lack, David Lambert, obituary of, 239
Lagopus lagopus, 737-746
 leucurus, 737-746
 mutus, 737-746
 Lamb, Chester Converse, obituary of, 479-480
 Lamm, Donald W., White Hawk preying
 on the Great Tinamou, 845-846
 Langham, N. P. E., Comparative breeding biology of the Sandwich Tern, 255-277
 Langridge, Howard P., and Paul W. Sykes, Jr., Record confirmed of Bahama Woodstar in Florida, 849
Laniisoma elegans, 840
Lanius excubitor, 821-825
 Lanyon, Wesley E., review by, 640-643
 Lapwing, Andean, 628
 Southern, 608
 Lark, Horned, 65-74, 177-178
Larus argentatus, 139-144, 158, 175, 255, 432, 577, 580, 637, 639, 846-849

 californicus, 693
 canus, 760, 770
 delawarensis, 575-594, 848
 fuscus, 255
 glaucus, 826
 heermanni, 693
 maculipennis, 601-613
 marinus, 139-144, 577, 580, 848
 minutus, 577
 occidentalis, 693
 philadelphica, 693
 pipixcan, 601-603, 608-611, 684, 685, 692, 693, 695
 ridibundus, 255-257, 260, 272, 275
 serranus, 629, 630
Laterallus jamaicensis, 747-755
 Laurie, W. A., see Olivier, R. C. D., and ———
 Lavers, Norman, Three more cases of
 White-crowned Sparrows parasitized
 by Brown-headed Cowbirds, 829-830
 Lawson, C. S., First Nevada record of
 Chestnut-collared Longspur, 432
 Leck, Charles, Further observations of
 nectar feeding by orioles, 162-163
 LeCroy, Mary, review by, 192-194
Legatus leucocephalus, 430
Lessonia rufa, 629
Leucosticte albicollis, 845-846
 Lewis, T. J., D. G. Ainley, D. Greenberg,
 and R. Greenberg, A Golden-cheeked Warbler on the Farallon Islands, 411-412
 Ligon, J. David, and Sandra L. Husar,
 Notes on the behavioral ecology of
 Couch's Mexican Jay, 841-843
 Lill, Alan, Behavior of the Grassland Sparrow and two species of seed-finches, 35-43
Limosa fedoa, 167
 Lock, A. R., see Nettleship, David N.,
 and ———
 Longevity of, *Larus argentatus*, 432
 Longspur, Chestnut-collared, 432
 Longstreet, Rubert J., obituary of, 898

- Loon, Arctic, 413–415, 825–827
 Common, 413–415
- Los Roques, 830–832
- Loxia curvirostra*, 546
leucoptera, 624–626
- Lucas, Alfred M., and Peter R. Stettnerheim, Avian anatomy. Integument (rev.), 207–208
- Ludwig, James P., Recent changes in the Ring-billed Gull population and biology in the Laurentian Great Lakes, 575–594
- MacClay, Robert, see Heintzelman, Donald S., and ——
- Magpie, Black-billed, 180–181
- Mahoney, Jay J., review by, 210
- Mallard, 158, 378, 382, 488–493, 760
- Management and conservation, periodical literature on, 660–662, 890–892
- Manakin, Black-capped, 430
- Manitoba, 189–191, 423–427, 488–495
- Mann, Clive F., Songs of two Kenya turdids, 166–167
- Manuwal, David A., see Speich, Steven, and ——
- Martin, Dennis J., Copulatory and vocal behavior of a pair of Whiskered Owls, 619–624
- Martin, Robert F., Syntopic culvert nesting of Cave and Barn Swallows in Texas, 776–782
- Maryland, 634–636, 749, 751, 753, 754, 796–807, 822
- Mason, C. Russell, obituary of Rubert J. Longstreet, 898
- Massachusetts, 139–144, 151–160, 618–619
- Matray, Paul F., Broad-winged Hawk nesting and ecology, 307–324; see Mosher, James F., and ——
- Maunder, John Ernest, see Threlfall, William, et al.
- May, Robert M., Stability and complexity in model ecosystems (rev.), 645–646
- McGrew, Albert D., see Novy, Frank O., and ——
- McIntyre, Anthony E., and Judith W. McIntyre, Spots before the eyes, an aid to identifying wintering loons, 413–415
- McIntyre, Judith W., see McIntyre, Anthony E., and ——
- Meadowlark, Eastern, 99–100, 104–105, Western, 177–178, 834
- Meanley, Brooke, Swamps, river bottoms and canebrakes (rev.), 871
- Megacyrile alcyon*, 760, 835–836
- Melanerpes erythrocephalus*, 560
- Melospiza georgiana*, 486
lincolnnii, 761, 763
melodia, 152, 154, 158, 546
- Memoriam (see also Obituary), Murphy, Robert Cushman, 1–9
- Metabolism of, *Buteo platypterus*, 325–341
- Metriopelia cecilae*, 627
- Mexico, 188–189, 681–699
- Michigan, 161–162, 432, 575–594
- Middle America, 681–699
- Middleton, A. L. A., see Garbutt, Allan, and ——
- Migration (see also Emigration),
Buteo brachyurus, 95–97
Chlidonias niger, 695
Clangula hyemalis, 188
Larus pipixcan, 695
Phalaropus lobatus, 695
Xema sabini, 695
- Migration and orientation, periodical literature on, 229–231, 662–667, 892–893
- Milvago chimango*, 608
- Mimus polyglottos*, 546, 560
- Minnesota, 517–521, 783–795, 822–824, 835–836
- Mniotilla varia*, 411
- Mockingbird, 546, 560
- Moldenhauer, Ralph R., First Clay-colored Robin collected in the United States, 839–840
- Moll, Don, Notes on copulation in the White-breasted Nuthatch, 171
- Molothrus ater*, 152, 829–830
- Molts and plumages, *Bonasa umbellus*, 421–423
- Buteo jamaicensis*, 618–619
- B. platypterus*, 313–315

- Chasiempis sandwichensis*, 841
Empidonax difficilis, 111–131
E. flavescens, 111–131
Larus delawarensis, 587
 North Carolina birds in relation to anting, 541–544, 550–563
Passerina ciris, 486
P. cyanea, 486
P. cyanea × *P. ciris*, 486–487
Tijua atra, 361
Zonotrichia albicollis, 44–53
 Monroe, Jr., Burt L., review by, 194–195
 Montana, 532–536
 Mortality of, *Alca torda*, 847–848
Fratercula arctica, 847
Larus argentatus, 846–849
Oceanodroma leucorhoa, 847
Rissa tridactyla, 846–849
Uria aalge, 847–848
U. lomvia, 847
 Mortality rate, *Larus delawarensis*, 590–591
Ptychoramphus aleuticus, 302–304
 Mosher, James A., and Paul F. Matray, Size dimorphism: a factor in energy savings for Broad-winged Hawks, 325–341
 Moss, Robert, Winter diets, gut lengths, and interspecific competition in Alaskan ptarmigan, 737–746
Motacilla aguimp, 169–170
 Mueller, Helmut C., Factors influencing prey selection in the American Kestrel, 705–721
 Murphy, Robert Cushman, Memorial, 1–9
 Murre, Common, 828, 847–848
 Thick-billed, 847
 Murrelet, Craveri's, 694, 697
 Marbled, 10–23
Muscisaxicola alpina, 629
Myiarchus crinitus, 105, 559
Myiopagis caniceps, 431
Myospiza humeralis, 35–37, 42–43
 Nebraska, 62
 Neff, Johnson Andrew, obituary of, 898–900
 Negrito, Rufous-backed, 629
 Nelson, Bernard C., A revision of the New World species of *Ricinus* (Malpighiaceae) occurring on Passeriformes (Aves) (rev.), 208–209
Neoxolmis rufiventris, 820
 Nest and nest site, *Agelaius phoeniceus*, 810–811
Ajaia ajaja, 605, 607–608
Amazilia viridigaster, 626
Aphelocoma ultramarina, 841–843
Brachyramphus marmoratus, 14–17
Buteo platypterus, 309–312
Casmerodus albus, 605, 607–608
Coragyps atratus, 595
Dendrocopos borealis, 342–347
Egretta thula, 605, 607–608
Eremophila alpestris, 69–72
Falco peregrinus, 732–734
Hirundo rustica, 776–782
Larus delawarensis, 583–584
L. maculipennis, 602–605, 607–608, 611
L. pipixcan, 602, 603, 608–611
L. ridibundus, 255
Megacyrle alcyon, 835–836
Petrochelidon fulva, 776–782
P. pyrrhonota, 778–781
Phasianus colchicus, 522–531
Pitangus sulphuratus, 639
Plegadis chihi, 603, 605
Podiceps occipitalis, 602–605
P. rolland, 602, 605
Spiza americana, 352–353
Sterna dougallii, 256
S. hirundo, 256
S. paradisaea, 256
Thalasseus sandvicensis, 255–256
 Nesting, see Breeding
 Nest parasitism, 796–807, 829–830
 Nestling period, *Buteo platypterus*, 315–322
 Nettleship, David N., Northern Fulmar colonies on the south coast of Devon Island, N. W. T., 412; and A. R. Lock, Black-legged Kittiwakes breeding in Labrador, 173–174
 Nevada, 432
 New Brunswick, 175, 637–639
 Newfoundland, 827–829, 846–849
 New Jersey, 172, 750, 753, 754, 849
 New Mexico, 163–166

- Newton, I., Finches (rev.), 202–203
 New York, 181–185, 307–324, 575–594,
 823–824, 837–839
 Nicaragua, 681–699
 Nighthawk, Common, 105, 152, 543, 559
 Noddy, Brown, 694, 840–841
 Nomenclature of, *Alle alle*, 432
 Daption capense, 419–421
 Pinguinus impennis, 432
 Veniliornis affinis, 631–634
 V. cassini, 631–634
 V. chocoensis, 631–634
 North Carolina, 537–563, 636–637
 North Dakota, 54–64, 167, 278–290, 375–
 386
 Northwest Territories, 243–254, 412
 Novy, Frank O., and Albert D. McGrew,
 Orange-breasted Bunting in southern
 Texas, 178–179
Nucifraga columbiana, 732
 Nutcracker, Clark's, 732
 Nuthatch, Brown-headed, 563
 White-breasted, 152, 171, 542, 560
Nuttallornis borealis, 760
Nyctea scandiaca, 821–825
- Obituary of (see also Memoriam),
 Baker, John Hopkinton, 679–680
 Lack, David Lambert, 239
 Lamb, Chester Converse, 479–480
 Longstreet, Rubert J., 898
 Neff, Johnson Andrew, 898–900
Oceanites oceanicus, 684, 685, 690
Oceanodroma leucorhoa, 684, 685, 690,
 847
 melia, 682, 684, 685, 690–691, 694,
 695, 698
 tethys, 690, 694, 698
 Ogden, John C., The Short-tailed Hawk
 in Florida. I. Migration, habitat,
 hunting techniques, and food habits,
 95–110
 Ohio, 822
 Oldsquaw, 188
 Olivier, R. C. D., and W. A. Lauries,
 Birds associating with hippopotamuses, 169–170
Olor columbianus, 488–493
 Olson, Storrs L., A reappraisal of the
 fossil heron *Palaeophoyx columbiana*
 McCoy, 179–180; review by, 862–
 865
 O'Neill, John P., and Alfred L. Gardner,
 Rediscovery of *Aulacorhynchus prasinus dimidiatus* (Ridgway), 700–
 704
 Ontario, 188, 421–423, 507–516, 575–594,
 822–824
 Orientation (see also Migration and
 —), *Columba livia*, 24–34, 370–
 374
 Oriole, Hooded, 162
 Northern, 151, 152, 156, 158, 162–163,
 182
 Orchard, 162, 546
 Scott's, 162
 Yellow-backed, 163
 Oropendola, Chestnut-headed, 163
Oryzoborus angolensis, 35, 38–43
 crassirostris, 35, 38–43
 Ossa, Helen, They saved our birds/the
 battle won and the war to win
 (rev.), 648
Otus asio, 145–150, 152, 155–157, 172–
 173
 trichopsis, 619–624
 Owl, Barn, 145–150, 172–173, 179–180
 Burrowing, 339, 636–637
 Great Horned, 834
 Hawk, 760
 Saw-whet, 783–795
 Screech, 145–150, 152, 155–157, 172–
 173
 Short-eared, 533
 Snowy, 821–825
 Whiskered, 619–624
 Oxpecker, Red-billed, 169–170
 Yellow-billed, 169–170
Oxyura dominica, 415–417
 jamaicensis, 489
- Pacific, East, 681–699
Palaeophoyx columbiana, 179–180
 Paleontology, see Taxonomy and —,
 see Fossils
 Palmer, Ralph S., reviews by, 868, 868–
 869
 Panama, 162–163

- Parabuteo unicinctus*, 429
- Parasites, see Diseases and ———
- Parasitism, see Cleptoparasitism, Nest parasitism
- Parkes, Kenneth C., review by, 443–445
- Parus atricapillus*, 152, 760, 762, 763, 793
bicolor, 99, 546, 560, 563
carolinensis, 546, 560, 563, 836
hudsonicus, 760, 762
- Passer domesticus*, 151, 152, 154–158, 544, 547, 561–562, 839
- Passerculus sandwichensis*, 486, 761, 762, 763, 834
- Passerella iliaca*, 184, 761–764, 766
- Passerina amoena*, 485
ciris, 485–487
cyanaea, 152, 154, 158, 485–487
leclancherii, 178–179, 480
versicolor, 485
- Payne, Robert B., Behavior, mimetic songs and song dialects, and relationships of the parasitic indigobirds (*Vidua*) of Africa (rev.), 640–643
- Pearson, David L., and Manuel A. Plenge, Puna bird species on the coast of Peru, 626–631
- Pearson, Erwin W., see Royall, Jr., W. C., and ———
- Pelican, Brown, 681, 691
- Pelecanus occidentalis*, 681, 691
- Perisoreus canadensis*, 760, 762, 771
- Peru, 626–631, 700–704, 840
- Pesticides, *Coccyzus americanus*, 186–188
C. erythrophthalmus, 186–188
Falco peregrinus, 731–732, 734, 735
- Pesticides and pollution, periodical literature on, 231–234, 671–675, 895
- Peterson, Roger Tory, and Edward L. Chalif, A field guide to Mexican birds (rev.), 865–867
- Petrel, Murphy's, 6–8, painting of, frontispiece
- Parkinson's, 687–689, 694, 697, 698
- Petrochelidon fulva*, 776–782
pyrrhonota, 778–781
- Pettingill, Jr., Olin Sewall, see Jonkel, George M., and ———
- Pewee, Eastern Wood, 152, 546
Western Wood, 760
- Phaethon aethereus*, 681, 684, 685, 691
- Phalarope, Northern, 684, 685, 691, 692, 695, 760, 763
Red, 684, 685, 691
- Phalaropus fulicarius*, 684, 685, 691
lobatus, 684, 685, 691, 692, 695, 760, 763
- Phalcoboenus megalopterus*, 628
- Phasianus colchicus*, 158, 180–181, 522–531
- Pheasant, Ring-necked, 158, 180–181, 522–531
- Pheucticus ludovicianus*, 54–64, 152, 156, 158, 547
melanocephalus, 54–64, 694
- Phillips, Alan R., review by, 433–434
- Philydor atricapillus*, 430
- Phoenicopterus chilensis*, 628, 629, 630
- Physiology, periodical literature on, 235–236, 676, 895–896
- Piatt, Jean, Adventures in birding/confessions of a lister (rev.), 450
- Pica pica*, 180–181
- Pigeon, Domestic, 839
Homing, 24–34, 370–374
- Pinguinus impennis*, 432
- Pinicola enucleator*, 761, 762, 771
- Pintail, 278–290, 382, 488–493, 760
Yellow-billed, 628
- Pipilo erythrophthalmus*, 100, 105, 540, 544, 547, 548, 562–563
fuscus, 167
- Piprites pileatus*, 430
- Piranga ludoviciana*, 182–183
rubra, 540, 543, 546, 551, 554, 555, 559, 617–618
- Pitangus sulphuratus*, 639
- Pithecophaga jefferyi*, 191
- Platt, Joseph B., and Steve K. Sherrod, Interactions between corvids and a Golden Eagle on a pheasant kill, 180–181
- Plegadis chihi*, 601, 603–605, 607
falcinellus, 423
ridgwayi, 628
- Plenge, Manuel A., see Pearson, David L., and ———
- Plover, Puna, 628–629
Snowy, 629
- Podiceps dominicus*, 415–417
griseogena, 760, 770

- occipitalis*, 602–605, 629
rolland, 602, 605, 628, 629
Podilymbus podiceps, 415–417
Polioptila caerulea, 99
 Pollution, see Pesticides and ——
Polyborus plancus, 608
 Polygyny, *Spiza americana*, 348–359
 Polymorphism, *Zonotrichia albicollis*, 44–53
Pooecetes gramineus, 834
 Population of, *Acanthis flammea*, 763, 764
Agelaius phoeniceus, 105
 Alaskan taiga birds, 763–766
Buteo brachyurus, 99–101, 106–107
Cardinalis cardinalis, 105
Cassidix major, 105
Catharus minimus, 763
C. ustulatus, 763, 764, 766
Centurus carolinus, 105
 Changes from 1860 to 1964, 151–160
Chordeiles minor, 105
Coccyzus americanus, 105
Corvus brachyrhynchos, 105
Cyanocitta cristata, 105
Dendroica coronata, 763, 764, 766
D. petechia, 763, 766
D. pinus, 105
D. striata, 105
D. townsendi, 763, 764
Dryocopus pileatus, 105
 Eastern Pacific seabirds, 681–699
Empidonax alnorum, 763
E. hammondi, 763
Euphagus carolinus, 763, 766
Geothlypis trichas, 105
Ixoreus naevius, 763, 764, 766
Junco hyemalis, 763, 764, 766
Lanius excubitor, 821–825
Larus delawarensis, 575–594
Lobipes lobatus, 763
 Massachusetts urban birds, 151–160
Melospiza lincolni, 763
Myiarchus crinitus, 105
Nyctea scandiaca, 821–825
Parus atricapillus, 763
Passerulus sandwichensis, 763
Passerella iliaca, 763, 764, 766
Pipilo erythrophthalmus, 105
Regulus calendula, 763, 764
Sturnella magna, 105
Thryothorus ludovicianus, 105
Tringa flavipes, 763
Turdus migratorius, 763, 764, 766
Tyrannus tyrannus, 105
Vermivora celata, 763, 764, 766
Vireo altiloquus, 105
V. griseus, 105
Wilsonia pusilla, 763
Zenaidura macroura, 105
Zonotrichia leucophrys, 763, 766
 Population expansion, *Larus delawarensis*, 575–594
 Populations, see Ecology and ——
 Population structure, *Ptychoramphus aleuticus*, 296–306
 Porter, David K., see Creighton, Phillip D., and ——
 Porter, Warren P., see Schulte, Trina, and ——
 Potter, Eloise F., and Doris C. Hauser, Relationship of anting and sunbathing to molting in wild birds, 537–563
 Powell, Robert W., Some measures of feeding behavior in captive Common Crows, 571–574
 Prairie Chicken, Greater, 75–85
 Predation by, *Aquila chrysaetos*, 180–181, 532–534
Buteo brachyurus, 99–107
B. jamaicensis, 639
Centurus carolinus, 836
Falco mexicanus, 532–533
F. peregrinus, 176, 732
F. sparverius, 705–721
Haliaeetus leucocephalus, 825–827
Leucophaeus albicollis, 845–846
Milvago chimango, 608
Otus asio, 145–150, 172–173
Polyborus plancus, 608
Rostrhamus sociabilis, 818–820
Sturnella neglecta, 177–178
Tyto alba, 145–150, 172–173
 Predation on, *Aeronautes saxatalis*, 732
Agelaius phoeniceus, 99–100, 104–106
Aimophila aestivalis, 100, 106
Ammospiza maritima, 100, 106
Anous stolidus, 840–841
Bombycilla cedrorum, 100
Buteo jamaicensis, 639

- Calamospiza melanocorys*, 177–178
Cardinalis cardinalis, 100, 105
Centrocercus urophasianus, 532–536
Charadrius vociferus, 100
Coccycus americanus, 99, 105
Colaptes auratus, 99
Colinus virginianus, 99–100, 106
Columba livia, 732
Columbigallina passerina, 99, 106
Dendrocopos borealis, 342–347
Dendroica striata, 100, 105
Eremophila alpestris, 177–178
Euphagus cyanocephalus, 732
Gavia arctica, 825–827
Gymnorhinus cyanocephala, 732
Iridoprocne bicolor, 100
Larus maculipennis, 608
Nucifraga columbiana, 732
Parus bicolor, 99
P. carolinensis, 836
Phasianus colchicus, 180–181
Pipilo erythrorthalmus, 100, 105
Poioptila caerulea, 99
Setophaga ruticilla, 100
Spinus tristis, 100
Spiza americana, 106
Spizella pusilla, 168–169
Sturnella magna, 99–100, 104–105
Tinamus major, 845–846
Tringa glareola, 176
Turdus migratorius, 100
Vireo altiloquus, 100, 105
V. griseus, 99–100, 105
Zenaida macroura, 99, 105, 732
- Prescott, Kenneth W., Summer Tanager southern range extension in Chile, 617–618
- Preston, F. W., The volume of an egg, 132–138; Ancient error in a 1955 Auk paper, 417–418
- Prey selection by, *Falco sparverius*, 705–721
- Proby, Kathryn Hall, Audubon in Florida (rev.), 870
- Procellaria parkinsoni*, 687–689, 694, 697, 698
- Pseudattila phoenicurus*, 431
- Ptarmigan, Rock, 737–746
White-tailed, 737–746
Willow, 737–746
- Pterodroma ultima*, frontispiece, 6–8
Ptychoramphus aleuticus, 291–306
Puffin, Common, 847
Puffinus auricularis, 684, 685, 689, 694, 698
creatopus, 684, 685, 689, 694, 695, 698
gravis, 429
griseus, 689, 695
lherminieri, 188–189, 684, 685, 689–690, 694, 695, 698, 830–832
pacificus, 684, 685, 689, 694, 695, 698
puffinus, 684, 685, 689, 694, 698
- Pygmy-tyrant, Tawny-crowned, 431
- Quebec, 822
Quiscalus quiscula, 152, 158, 547, 549, 562–563
- Raikow, Robert J., reviews by, 198–200, 209
- Rail, Black, 747–755
Virginia, 747, 752, 754–755
Yellow, 747, 752–755
- Rallus limicola*, 747, 752, 754–755
- Raven, Common, 760
- Razorbill, 847–848
- Redhead, 377, 488–493
- Redpoll, Common, 761–764
- Redstart, American, 100, 152, 156, 161–162
- Regulus calendula*, 542, 558, 563, 760, 762–764, 768
satrapa, 830
- Relationships of, *Veniliornis affinis*, 631–634
V. cassini, 631–634
V. chocoensis, 631–634
- Reynard, George B., Some vocalizations of the Black, Yellow, and Virginia Rails, 747–756
- Riparia riparia*, 431, 760, 770
- Rissa tridactyla*, 173–174, 827–829, 846–849
- Robel, Robert J., see Ballard, Warren B., and ——
- Robin, American, 100, 152, 157–158, 540–542, 546, 548, 549, 553, 554, 561, 563, 760, 762–764, 766, 768
- Clay-colored, 839–840

- Rocky Mountain region, 727–736
 Roest, Aryan I., see Clevenger, G. A., and ——
 Romanoff, A. L., and A. J. Romanoff, Pathogenesis of the avian embryo (rev.), 209
Rostrhamus sociabilis, 608, 818–820
 Rothstein, Stephen I., Mechanisms of avian egg recognition: possible learned and innate factors, 796–807
 Royall, Jr., W. C., and Erwin W. Pearson, obituary of Johnson Andrew Neff, 898–900
 Russell, Stephen M., review by, 210
 Rylander, Michael Kent, and Eric G. Bolen, Feeding adaptations in whistling ducks (*Dendrocygna*), 86–94
- Salomonsen, Finn, Fugletraekket og dets gader (rev.), 195; Vogelzug (rev.), 195
 Samuel, David E., Donald R. Beightol, and Carlos W. Brain, Analysis of the drums of Ruffed Grouse, 507–516
 Sandpiper, Common, 169–170
 Rock, 175
 Solitary, 760
 Spotted, 158
 Wood, 175–177
 Sapsucker, Yellow-bellied, 540, 546, 558
 Scap, Lesser, 243–254, 489–493
 Schnell, Gary D., Flight speeds and wing-beat frequencies of the Magnificent Frigatebird, 564–570
 Schulte, Trina, and Warren P. Porter, Environmental limitations of pheasant egg hatching success, 522–531
 Sealy, Spencer G., Breeding phenology and clutch size in the Marbled Murrelet, 10–23
 Seedeater, Chestnut-bellied, 35–36, 42
 Gray, 38
 Lined, 38
 Plumbeous, 431
 Ruddy-breasted, 38, 431
 Seed-finches, Chestnut-bellied, 39
 Large-billed, 35, 38–43
 Lesser, 35, 38–43
Seiurus noveboracensis, 411, 761
Setophaga ruticilla, 100, 152, 156, 161–162
 Sex ratio of, *Anas strepera*, 377–378, 380
 Seymour, Norman R., Site attachment in the Northern Shoveler, 423–427
 Shearwater, Audubon's, 188–189, 684, 685, 689–690, 694, 695, 698, 830–832
 Greater, 429
 Manx, 684, 685, 689, 694, 698
 Pink-footed, 684, 685, 689, 694, 695, 698
 Sooty, 689, 695
 Townsend's, 684, 685, 689, 694, 698
 Wedge-tailed, 684, 685, 689, 694, 695, 698
 Sheathbill, Snowy, 820
Sheppardia aequatorialis, 166–167
 Sherrod, Steve K., see Platt, Joseph B., and ——
 Short, Lester L., Systematics and behavior of South American flickers (Aves, *Colaptes*) (rev.), 200–202; Relationship of *Veniliornis "cassini"* *choocoensis* and *V. "cassini"* *cquetanus* with *V. affinis*, 631–634; reviews by, 441–443, 643–644, 850–852
 Shoveler, Northern, 423–427, 489, 492, 821–825
Sialia sialis, 152, 154, 546, 554
Sicalis luteola, 35, 39, 42
Sitta carolinensis, 152, 171, 542, 560
 pusilla, 563
 Skylark, 832–835
 Smith, Dwight G., and Daniel H. Holland, Mobbing Red-winged Blackbirds force American Kestrel into water, 843–844
 Smith, E. Linwood, see Austin, George T., and ——
 Smith, W. John, review by, 435–436
 Snipe, Common, 760
 Snow, Barbara K., and David W. Snow, Breeding of the Green-bellied Hummingbird, 626
 Snow, David W., and Derek Goodwin, The Black-and-gold Cotinga, 360–369; see Snow, Barbara K., and ——
 Song, see Vocalizations
 South Carolina, 635
 Sparrow, Bachman's, 100, 106

- Black-throated, 167
 Chipping, 152, 158, 547, 554, 563, 761
 Field, 168–169
 Fox, 184, 761–764, 766
 Grasshopper, 486
 Grassland, 35–37, 42–43
 House, 151, 152, 154–158, 544, 547, 561–562, 839
 Lincoln's, 761, 763
 Rufous-collared, 627–628
 Savannah, 486, 761–763, 834
 Seaside, 100, 106
 Song, 152, 154, 158, 546
 Swamp, 486
 Vesper, 834
 White-crowned, 761–763, 766, 768, 829–830
 White-throated, 44–53, 541, 542, 546, 551, 554, 558–559, 563, 837–839
 Speich, Steven, and David A. Manuwal, Gular pouch development and population structure of Cassin's Auklet, 291–306
Speotyto cunicularia, 339, 636–637
Sphyrapicus varius, 540, 546, 558
Spinus tristis, 100, 152
Spiza americana, 106, 348–359
Spizella passerina, 152, 158, 547, 554, 563, 761
pusilla, 168–169
 Spoonbill, Roseate, 601, 605, 607, 608
Sporophila castaneiventris, 35–36, 42
intermedia, 38
lineola, 38
minuta, 38, 431
plumbea, 431
 Stanley, Willard F., Beverly S. Ridgely, and Gustavs E. Eglajs, Birds of the world on stamps (rev.), 870–871
 Starling, 151, 152, 155, 157–158, 547, 553, 561, 839
Stercorarius longicaudus, 684–685, 692–693, 697
parasiticus, 692
pomarinus, 684, 685, 687, 690, 692, 694, 695
Sterna albifrons, 693, 845
anaethetus, 693
dougalii, 255–277
forsteri, 693
fuscata, 684, 685, 693, 694
hirundo, 255–277, 417–418, 577, 580, 614, 684, 685, 693
paradisaea, 255–277, 429
 Stevens, W. Frederick, see Weisbrod, A. R., and ———
 Stewart, Paul A., A nesting of Black Vultures, 595–600
 Stewart, P. F., and S. J. Christensen, A check list of the birds of Cyprus (rev.), 194
 Stickley, Jr., Allen R., see Knos, Carl J., and ———
 Stiles, Edmund W., Black-browed Albatrosses on fresh water, 844–845
 Stilt, Common, 608
 Storm-Petrel, Black, 682, 684, 685, 690–691, 694, 695, 698
 Galápagos, 690, 694, 698
 Leach's, 684, 685, 690, 847
 Least, 684, 685, 691, 694, 695, 698
 Wilson's, 684, 685, 690
Sturnella magna, 99–100, 104–105, 158
neglecta, 177–178, 834
Sturnus vulgaris, 151, 152, 155, 157–158, 547, 553, 561, 839
Sula bassana, 175
dactylatra, 684, 685, 691, 694, 698
leucogaster, 681, 684, 685, 691, 694
nebouxii, 691
sula, 684, 685, 691, 694, 698
 Surinam, 639
Surnia ulula, 760
 Survival rate, *Larus argentatus*, 139–144
L. marinus, 139–144
 Swallow, Bank, 431, 760, 770
 Barn, 776–782
 Cave, 776–782
 Cliff, 778–781
 Tree, 100, 152, 154, 158
 White-winged, 431
 Swan, Whistling, 488–493
 Swift, Chimney, 152, 158, 839
 Gray-rumped, 430
 White-throated, 732
 Sykes, Jr., Paul W., Florida Burrowing Owl collected in North Carolina, 636–637; see Langridge, Howard P., and ———; and Herbert W. Kale II,

- Everglade Kites feed on nonsnail prey, 818-820
- Tachycineta albiventer*, 431
- Tanager, Green-headed, 431
Summer, 540, 543, 546, 551, 554-555, 559, 617-618
Western, 182-183
- Tangara seledon*, 431
- Tanzania, 169-170
- Taxonomy of, *Aulacorhynchus prasinus*, 700-704
Veniliornis affinis, 631-634
V. cassini, 631-634
V. choocoensis, 631-634
- Taxonomy and paleontology, periodical literature on, 236-238, 677-678, 896-897
- Taylor, Walter Kingsley, A new hybrid bunting (*Passerina cyanea* × *Passerina ciris*), 485-487
- Teal, American Green-winged, 489
Blue-winged, 489-493
Puna, 628
Speckled, 628
- Temperature regulation, *Amphispiza bilineata*, 167
Pipilo fuscus, 167
- Tern, Arctic, 255-277, 429
Black, 577, 684, 685, 692, 693, 694, 695
Bridled, 693
Caspian, 577, 580
Common, 255-277, 417-418, 577, 580, 614, 684, 685, 693
Elegant, 693-694
Forster's, 693
Gull-billed, 845
Least, 693, 845
Roseate, 255-277
Royal, 693
Sandwich, 255-277, 845
Sooty, 684, 685, 693, 694
White, 614-617
- Territory, *Anas clypeata*, 423-427
Eremophila alpestris, 67-68
Larus delawarensis, 584
Myospiza humeralis, 36
Oryzoborus angolensis, 39
O. crassirostris, 38
- Spiza americana*, 349-350
Tympانuchus cupido, 75-85
- Texas, 174, 178-179, 776-782, 839-840, 841-843
- Thalasseus elegans*, 693-694
maximus, 693
sandvicensis, 255-277, 845
- Thoresen, Asa C., First Shrike-like Cotinga record for Peru, 840
- Thrasher, Brown, 158, 544, 546, 551, 553-554, 560-561, 563
- Threlfall, William, Eldon Eveleigh, and John Ernest Mauder, Seabird mortality in a storm, 846-849
- Threskiornis aethiopica*, 423
- Thrush, Gray-cheeked, 760, 763
Pale-breasted, 431
Swainson's, 760, 762-764, 766, 768, 769
Varied, 760, 762-764, 766
Wood, 152, 540, 542, 559
- Thryothorus ludovicianus*, 105, 544, 546, 560, 563, 839
- Tijuca atra*, 360-369
- Tinamou, Great, 845-846
Small-billed, 429
- Tinamus major*, 845-846
- Tinbergen, Niko, The animal in its world (rev.), 435-436
- Titmouse, Tufted, 99, 546, 560, 563
- Tityra, Black-crowned, 430
Tityra inquisitor, 430
- Tobago, 830-832
- Tordoff, Harrison B., review by, 202-203
- Toucanet, Emerald, 700-704
- Towhee, Brown, 167
Rufous-sided, 100, 105, 540, 544, 547, 548, 562-563
- Toxostoma rufum*, 158, 544, 546, 551, 553-554, 560-561, 563
- Trauger, David L., Eye color of female Lesser Scaup in relation to age, 243-254
- Tringa flavipes*, 760, 763
glareola, 175-177
hypoleucus, 169-170
solitaria, 760
- Troglodytes aedon*, 152, 154, 156-157
- Tropicbird, Red-billed, 681, 684, 685, 691
- Turdus grayi*, 839-840
leucomelas, 431

- migratorius*, 100, 152, 157–158, 540–542, 546, 548, 549, 553, 554, 561, 563, 760, 762–764, 766, 768
- Tympانuchus cupidو*, 75–85
- Tyrannulet, Yellow, 431
- Tyrannus tyrannus*, 105, 152, 158
- Tyrant, Chocolate-vented, 820
- Tyto alba*, 145–150, 172–173, 179–180
- Udvardy, Miklos D. F., reviews by, 195, 196–198
- Urban, Emil K., Flight speed and wing-flapping rate of Sacred Ibis, 423
- Uria aalge*, 828, 847–848
 lomvia, 847
- Utah, 180–181
- Vanellus chilensis*, 608
 resplendens, 626
- van Riper III, Charles, An albinistic Elepaio from Hawaii, 841
- Veniliornis affinis*, 631–634
 cassini, 631–634
 choocoensis, 631–634
- Verbeek, Nicolaas A. M., The exploitation system of the Yellow-billed Magpie (rev.), 436–439
- Vermivora celata*, 761–764, 766, 768, 830
 peregrina, 411, 547
- Vireo, Bell's, 181–182
 Black-whiskered, 100, 105
 Red-eyed, 152, 158
 Warbling, 152, 158
 White-eyed, 99–100, 105
 Yellow-throated, 152
- Vireo altiloquus*, 100, 105
 bellii, 181–182
 flavifrons, 152
 gilvus, 152, 158
 griseus, 99–100, 105
 olivaceus, 152, 158
- Virginia, 595–600, 836
- Vocalizations (see also Drumming)
 Alethe poliocephala, 166
 Branta canadensis, 189–191
 Buteo platypterus, 314–316
 Coccyzus americanus, 749, 751
 C. erythrophthalmus, 751
- Coturnicops noveboracensis*, 747, 752–755
- Dryocopus pileatus*, 634–636
- Eremophila alpestris*, 65–67
- Ixobrychus exilis*, 751, 752
- Laterallus jamaicensis*, 747–755
- Myospiza humeralis*, 36–37
- Oryzoborus angolensis*, 39
 O. crassirostris, 38–39
- Otus trichopsis*, 620–623
- Pheucticus ludovicianus*, 54–64
- P. melanocephalus*, 54–64
- Rallus limicola*, 747, 752, 754–755
- Sheppardia aequatorialis*, 166–167
- Tijua atra*, 363–364
- Volatinia jacarina*, 36, 38
- Vultur gryphus*, 628
- Vulture, Black, 595–600
 Turkey, 598, 819, 849
- Wagtail, African Pied, 169–170
- Walcott, Charles F., Changes in bird life in Cambridge, Massachusetts from 1860 to 1964, 151–160
- Walker, Danny, A Pleistocene Gyrfalcon, 820–821
- Walkinshaw, Lawrence H., Cranes of the world (rev.), 852–855
- Wallraff, Hans G., The effect of directional experience on initial orientations in pigeons, 24–34
- Warbler, Black-and-White, 411
 Blackburnian, 411
 Blackpoll, 100, 105, 761
 Black-throated Blue, 411
 Cape May, 547
 Cerulean, 694
 Chestnut-sided, 547
 Golden-cheeked, 411–412
 Orange-crowned, 761–764, 766, 768, 830
 Pine, 105, 540, 541, 546, 554, 561, 563
 Tennessee, 411, 547
 Townsend's, 761–764
 Wilson's, 694, 761–763, 768
- Yellow, 152, 156, 158, 694, 761, 763, 766, 768, 839
- Yellow-rumped, 542, 546, 551, 558, 563, 694, 761–764, 766, 768

- Warner, Dwain W., see Forbes, James E., and ——
- Warren, Rachel L. M., Type-specimens of birds in the British Museum (Natural History). Vol. 1, Non-passerines (rev.), 433–434; and C. J. O. Harrison, Type-specimens of birds in the British Museum (Natural History). Vol. 2, Passerines (rev.), 433–434
- Washington, 829–830, 832–835
- Waterthrush, Northern, 411, 761
- Watson, George E., The correct gender of *Daption* Stephens 1826, 419–421; see Wingate, David B., and ——; J. Phillip Angle, and M. Ralph Brownring, First North American record of Little Bunting in eastern Chukchi Sea, 417
- Wauer, Roland H., Birds of the Big Bend National Park and vicinity (rev.), 209–210
- Waxwing, Bohemian, 761
Cedar, 100, 152
- Weights and measurements, *Amazilia viridigaster*, 626
Anas acuta, 284
Aulacorhynchus prasinus, 701–702
Botaurus columbiana, 179
B. lentiginosus, 179
B. pinnatus, 179
Buteo platypterus, 326–327
Empidonax difficilis, 111–131
E. flavescens, 111–131
Loxia leucoptera, 624–626
Palaeophoxys columbiana, 179
Passerina ciris, 486
P. cyanea, 486
P. cyanea × *P. ciris*, 486
Speotyto cunicularia, 636
Tijuca atra, 361
Veniliornis affinis, 633
V. cassini, 633
V. choocoensis, 633
Zonotrichia albicollis, 44–53
- Weisbrod, A. R., and W. Frederick Stevens, The Skylark in Washington, 832–835
- West, George C., Abnormal bill of a White-winged Crossbill, 624–626; and Barbara B. De Wolfe, Populations and energetics of taiga birds near Fairbanks, Alaska, 757–775
- West Virginia, 507–516
- Wetmore, Alexander, The birds of the Republic of Panama, Part 3 (rev.), 194–195
- White, Clayton M., Francis S. L. Williamson, and William B. Emison, *Tringa glareola*—a new breeding species for North America, 175–177
- Wible, Mary W., Florida Cardinals feeding on nectar, 418–419
- Wiens, John A., reviews by, 204–207, 645–646
- Wiese, Jochen H., and Robert L. Crawford, Joint “leap-frog” feeding by ardeids, 836–837
- Wigeon, American, 377, 488–493
- Willet, 749
- Williamson, Francis S. L., see White, Clayton M., et al.
- Wilsonia pusilla*, 694, 761–763, 768
- Wingate, David B., and George E. Watson, First North Atlantic record of the White Tern, 614–617
- Wolf, Larry L., reviews by, 859–861, 861–862
- Woodcreeper, Plain-brown, 430
- Woodpecker, Downy, 151, 152
Golden-collared, 631–634
Hairy, 760
Lewis', 171
Pileated, 105, 634–636
Red-bellied, 105, 544, 546, 559–560, 836
Red-cockaded, 342–347
Red-headed, 560
Red-stained, 631–634
- Woodstar, Bahama, 849
- Woodward, Paul W., The natural history of Kure Atoll, Northwestern Hawaiian Islands (rev.), 449–450
- Wren, Carolina, 105, 544, 546, 560, 563, 839
House, 153, 154, 156–157
- Wylie, Stephen R., Notes on egg-laying in the Monkey-eating Eagle, 191
- Wyoming, 819–820

- Xema sabini*, 684, 685, 693, 694, 695
Yellowlegs, Lesser, 760, 763
Yellowthroat, Common, 105, 158
Zarhynchus wagleri, 163
Zenaida macroura, 99, 105, 546, 559, 563,
 694, 732
- Zonotrichia albicollis*, 44–53, 541, 542,
 546, 551, 554, 558–559, 563, 837–839
capensis, 627–628
leucophrys, 761–763, 766, 768, 829–830
Zwinger, Ann H., and Beatrice E. Willard,
 Land above the trees/a guide to
 American alpine tundra (rev.), 871

DATE OF ISSUE (VOL. 91, NO. 4): 9 October 1974