

INDEX TO VOLUME 94

Compiled by Judith W. McIntyre

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

Note that page numbers followed by "A, B, C, or D" refer to supplements to the January, April, July, or October issues respectively.

- A new journal, announcement of, 2C
Able, Kenneth P., The orientation of passerine nocturnal migrants following offshore drift, 320-330
Abnormality of, *Cyanocitta cristata*, 781-782
 Melagris gallopavo, 159
 Passer domesticus, 377-380
 Zenaida macoura, 158
Abramson, Ira Joe, Photographic confirmation of Giant Snipe in Argentina, 357
Accipiter cooperii, 142-143, 293-303
A. gentilis, 156, 585-586, 652-663
A. striatus, 156-157, 586
A. superciliosus, 242
Acker, J. Randolph, Premature parental behavior of a Red-shouldered Hawk, 374-375
Actitis hypoleucos, 604
A. macularia, 149
Adkisson, Curtis S., and Scott S. Campbell, An unusual interaction between Blue-winged and Golden-winged Warblers in Virginia, 588-590
Aegolius acadicus, 156-157
Aegyptus monachus, 296
Agamia agami, 242
Age determination of, *Calcarius lapponicus*, 513-516, 520-522
Agelaius phoeniceus, 152-155, 387, 455-468
A. xanthamus, 5DD
Aix galericulata, 608-612
A. sponsa, 159, 567-572
'Akepz, Hawaii, 4DD
 Maui, 4DD
'Akialoa, Kauai, 4DD
'Akiapolaaui, 4DD
'Alala, 4DD
Alaska, 442-447, 505-525
Alauda arvensis, 646-651
Albatross, Black-footed, 172, 256-269, 526-543
 Laysan, 172, 256-269, 270-274
Aldrich, John W., review by, 185
Ali, Salim, and S. Dillon Ripley, Handbook of the birds of India and Pakistan, together with those of Bangladesh, Nepal, Sikkim, Bhutan and Sri Lanka (rev.), 791-792
Alison, R. M., Homing of subadult Oldsquaws, 383-384
Allen, H. M. and H. Parker, Willow Ptarmigan remove broken eggs from nest, 612-613
Allez, George, see Mueller, Helmut C., et al.
Amadon, D., see Delacour J. and Amakihi, 331-342, 646-651
Amazilia ambilis, 242
A. franciae, 48
Amazon, 283-292
Amazona autumnalis, 242
A. vittata, 4DD
A. farinosa, 242
American Ornithologists' Union, Awards 123-124, 138-139
 Business sessions, 123-126
 Check-list, corrections to 33rd Supplement, 190
 Committees, 132-133
 Conservation, Report of the committee on, 1-19DD
 Membership, 124
 Offices, 132
 Proceedings of the Ninety-fourth stated meeting, 123-137
 Public sessions, 126-129
 Resolutions, 130-132
 Treasurer's report, 134-137
Amlaner, Jr., Charles J., see Hayward, Jr., James L., et al.
Ammodyramus savannarum, 591
Ammospiza maritima mirabilis, 4DD, 16DD
A. m. nigrescens, 4DD, 15DD
Anas americana, 790
A. diazi, 4DD
A. platyrhynchos, 350-356
Anatomy and embryology, recent literature on, 2B-3B, 2C, 2D
Anatomy and morphology of, *Agelaius phoeniceus*, 152-155
 Aix galericulata, 608-612
 Catharacata chilensis, 419
 C. maccormicki, 419-426
 C. skua, 418-419
 Chen caerulescens, 275-282
 Columba livia, 152-155
 Hemignathus procerus, 331-342
 H. wilsoni, 331-342
 Himatione sanquinea, 331-342

- Lagopus leucurus*, 544–551
Loxops maculata, 331–342
L. virens, 331–342
Meleagris gallopavo, 159
Melospiza melodia, 152–155
 Occipital spot, 293–303
Palmeria dolei, 331–342
Pelecanus occidentalis, 785–786
Psittirostra cantans, 331–342
P. psittacea, 331–342
Vestiaria coccinea, 331–342
Xenoglaux loweryi sp. nov., 409–416
Zonotrichia albicollis, 152–155
 Ankney, C. D., feeding and digestive organ size in breeding Lesser Snow Geese, 275–282
 Antbird, Esmeraldas, 45 spp. 283–292
Anthus spinoletta, 362
 Antwren, Rufous-rumped, 48
 Apanius, Victor, Red-shouldered Hawks in juvenile plumage nest successfully, 585
 Applegate, Roger D., possible ecological role of food caches of Loggerhead Shrike, 391–392
Aquila chrysaetos, 293–303, 789–790
Aramus quarauna, 365–367
 Archbold, Richard, obituary of, 186–187
Archilochus alexandri, 448–454
Arenaria interpres, 222–230, 743–748
 Argentina, 357
 Arizona, 86–96, 142
 Armstrong, Edward R., and David L. G. Noakes, Albino Mourning Dove sighting in Ontario, 158
Arremon aurantirostris, 242
Asio flammeus, 443, 584
Atlaptes atricapillus, 48
Attila bolivianus, 363
Attila Dulled-capped, 363
 Auklet, Cassin's 526–543
 Rhinoceros, 526–543
 Austin, Elizabeth S., reviews by, 186
 Austin, Jr., O. L. obituary of Harrison Flint Lewis, 405; review by, 404
Aviceda cuculoides, 296

 Bakken, Laura E., and George S. Bakken, American Redstart feeding by artificial light, 373–374
 Baird, William M., see White, Clayton M. and ———
 Balcomb, Richard, The grouping of nocturnal passerine migrants, 479–488
 Balda, Russell P., Michael L. Morrison, and Thomas R. Bement, Roosting behavior of the Piñon Jay in autumn and winter, 494–504
 Balph, David F., see Balph, Martha Hatch, et al.
 Balph, Martha Hatch, L. Charles Stoddart, and David L. Balph, A simple technique for analyzing bird transect counts, 606–607
 Baltz, D. M., and G. Victor Morejohn, food habits and niche overlap of seabirds wintering on Monterey Bay, California, 526–543
 Banding and techniques, recent literature on, 2A–3A, 3B, 2C, 2D
Bangsia rothschildi, 47
Baptornis advenus, 787–789
 Bateleur, 293–303
 Beason, Samuel L., see Patte Oliver H. and ———
 Bédard, J., see Munro, J., and ———
 Behavior, activity patterns, 286–289, 313–315, 552–566, 633–634, 743–758
 aggressive, 140
 agonistic, 232, 236–238, 298–300
 altruistic, 613–614
 antipredator, 143, 156–157
 breeding, 10–14, 270–274, 585
 cannibalism, 593–594
 copulatory, 233–234, 773
 courtship, 140–142, 172, 230–239, 395, 623–645, 777–778
 creche, 759–771
 dominance, 588–590, 594–596
 drumming, 232–238
 effect of pesticides on, 28–35
 effect of weather on, 272–273
 egg rejection, 612–613
 feeding, 28–35, 157–158, 275–282, 309–312, 344–345, 373–374, 526–543, 596–598, 627–629, 782–783
 feeding aggregations, 156–157, 526–543, 743–758, 789–790
 flight, 140–142
 food-begging, 374, 773
 foraging, 48, 284–289, 312–316, 344–346, 365–367, 390–391, 604, 605, 726–735
 foster parenthood, 273–274
 homing, 383–384
 incubation, 11–12, 68–69, 270–272, 552–566, 607
 interspecific, 140, 156–157, 213–215, 267–268, 287–289, 346, 375, 390–391, 395, 448–454, 588–590, 594–596, 596–598, 701–708, 726–735
 intraspecific, 36–43, 50–63, 347, 494–504
 maintenance, 392
 mate preplacement, 598–599
 mobbing, 375
 nest appropriation, 598–599, 774–775
 nest building, 50–63, 236, 602–604
 nest guarding, 23–25
 nest helpers, 596
 nest site tenacity, 10
 ontogeny of, 28–35, 608–612
 pair, 347–348
 parental care, 13–14, 272–274, 308–319, 345–346, 585, 613–614, 759–771, 773–774
 play, 573–582
 recent literature on 3A–5A, 3B–5B, 2C–3C
 roosting, 392, 494–504
 site fidelity, 393–395, 469–478
 sleeping, 58

- sunbathing, 586-587
 territorial, 448-454, 594-596, 623-645, 701-708
 vocal, 8-10, 152-155, 156-157, 232-238, 256-269, 567-572, 606, 629-633, 642-644, 701-708
Behavior of, *Aix galericulata*, 608-612
A. sponsa, 567-572
Aquila chrysaetos, 789-790
Arenaria interpres, 743-758
Buteo swainsoni, 65-71
Calidris alba, 743-758
C. canutus, 743-758
C. mauri, 743-758
C. pusilla, 743-758
Campephilus guatemalensis, 773-775
Campylorhynchus megalopterus, 594-596
Cardinalis cardinalis, 23-25
Casmerodius albus, 596-598
Catoptrophorus semipalmatus, 743-758
Charadrius melodus, 743-758
C. semipalmatus, 743-758
Chloprospingus flavovirens, 48
Cistothorus platensis, 359-362
Columba livia, 142-143, 143-145, 159-160
Coragyps atratus, 392
Corvus brachyrhynchos, 782-783
C. corax, 777-778
Diomedea immutabilis, 256-269, 270-274
D. nigripes, 256-269
Dumetella carolinensis, 23-25
Egretta thula, 597
Elanoides forficatus, 392
Gymnorhinus cyanocephalus, 494-504
Haematopus palliatus, 743-758
Haliaeetus leucocephalus, 375
Henichorina leucoptera, 198-200
Hirundo rustica, 596
Icteria virens, 107-113
Icterus cucullatus, 594-596
I. galbula, 594-596
Lagopus lagopus, 612-613
Lampornis clemenciae, 448-454
Lanius ludovicianus, 28-35
Larus argentatus, 726-735
L. delawarensis, 469-478
L. fuscus, 726-735
L. glaucescens, 375
Legatus leucophaeus, 97-106
Limnodromus griseus, 743-758
Melanerpes erthrocephalus, 231-239
Melospiza melodia, 701-708
Molothrus ater, 395
Myiarchus tyrannulus, 157-158
Oxyura jamaicensis, 140-142, 343-349
Pandion haliaetus, 140, 146-149, 213-215
Parus atricapillus, 156-157
Phalacrocorax olivaceus, 597
Piranga flava, 594-596
Pluvialis squatarola, 743-758
Procnias tricarunculata, 623-645
Pterodroma inexpectata, 4-14
Pteroglossus torquatus, 774-775
Pygoscelis adeliae, 552-566
Pyrrhura melanura, 773
Seiurus aurocapillus, 145-146
Somateria mollissima, 759-771
Spheniscus demersus, 586-587
Spizella pusilla, 308-319
Sphyrapicus varius, 613-614
Tringa flavipes, 743-758
T. melanoleuca, 743-758
Turdus migratorius, 80-85, 607-608
Vermivora chrysoptera, 588-590
V. pinus, 588-590
Vireo flavoviridis, 97-106
Behavior, recent literature on, 3A, 3B, 2C, 3D
Bellbird, Three-wattled, 623-645
Bellrose, Frank C., Ducks, geese and Swans of North America (rev.), 172-177
Bement, Thomas R., see Galda, Russell P., et al.
Berger, Daniel D., see Mueller, Helmut C., et al.
Berra, Tim M., William Beebe, An annotated bibliography (rev.), 804
Bertin, Robert I., Snowy Egrets attracted to prey by Common Terns, 390-391
Best, Louis B., Nestling biology of the Field Sparrow, 308-319
Blackbird, Red-breasted, 46-47
 Red-winged, 152-155, 387, 455-468
 Yellow-shouldered, 5DD
Blem, C. R., Reanalysis of geographic variation of House Sparrow energetics, 358-359
Blokpoel, Hans, Bird hazards to aircraft (rev.) 798-799
Bloom, George, see Ricklefs, Robert E., and —
Bluebird, Eastern, 387
Bobwhite, Masked, 4DD
Bock, Carl E., reviews by, 396-399
Bock, Walter, editor of Reviews, 177-186, 396-404, 615-621, 791-804; reviews by, 400, 401, 404, 615, 791-792, 804
Bocquet, C., J. Génemont, and M. Lamotte (eds.) Les problèmes de l'espèce dans le regne animal (rev.), 801-803
Bombycilla cedrorum, 455-468
Bonner, Orville, see Martin, Larry D., and —
Bowman, Robert I., review by, 181-183
Brackbill, Hervey, Eleven-day incubation by an American Robin, 607-608
Branta canadensis leucoparia, 4DD, 7-9DD
B. sandvicensis, 4DD, 17DD
Braun, Clait E., see Höhn, E. Otto and —
Breeding of (see also Behavior; Breeding success; Clutch size; Eggs, description and measurements; incubation and incubation periods; Nest and nest site)
Bubulcus ibis, 689-700
Buteo swainsoni, 65-71
Calcarius lapponicus, 505-525

- Casmerodius albus*, 689-700
Cistothorus platensis, 359-362
Egretta thula, 689-700
Florida caerulea, 689-700
Hydranassa tricolor, 689-700
Pandion haliaetus, 201-221
Parabuteo unicinctus, 370-371
Pterodroma inexpectata, 1-17
Rynchops niger, 709-717
Turdus migratorius, 80-85
 Breeding season of, *Icteria virens*, 107-113
Pterodroma inexpectata, 4
Rynchops niger, 710
Vireo flavoviridis, 98-99
 Breeding success of, *Bubulcus ibis*, 697-699
Buteo lineatus, 585
Calcarius lapponicus, 505-525
Carduelis tristis, 304-307
Casmerodius albus, 697-699
Egretta thula, 697-699
Florida caerulea, 697-699
Hydranassa tricolor, 697-699
Pandion haliaetus, 201-221
Parabuteo unicinctus, 370-371
Rynchops niger, 711-712
Sayornis phoebe, 367-369
 Brilliant, Empress, 48
 Brown, Charles R., Brown-headed cowbird court-
 ing a Purple Martin, 395
 Bruggers, Richard L., and William B. Jackson,
 Morphological and behavioral development of
 the Mandarin Duck, 608-612
 Brush-Finch, Black-headed, 48
Bubo virginianus, 584
Bubulcus ibis, 689-700
 Buckley, F. G., see P. A. Buckley, and —
 Buckley, P. A., and F. G. Buckley, Hexagonal
 packing of Royal Tern nests, 36-43
Bugeranus carunculatus, 786-787
 Bunting, Indigo, 320-330, 387, 455-468
 Lazuli, 172, 779
 Burger, Joanna, and Lynne M. Miller, Colony and
 nest site selection in White-faced and Glossy
 Ibises, 664-676
 —, Marshall A. Howe, D. Caldwell Hahan, and
 Julia Chase, Effects of tide cycles on habitat
 selection and habitat partitioning by migrating
 shorebirds, 743-758
 Burton, P. J. K., Lower jaw action during prey
 capture by pelicans, 785-786
Busarellus nigricollis, 293-303
 Busbee, Everette L., The effects of dieldrin on the
 behavior of young Loggerhead Shrikes, 28-35
 Bushtit, 598-599
Butastur indicus, 293-303
Buteo jamaicensis, 293-303, 586, 593-594
B. lineatus, 374-375, 585
B. swainsoni, 65-71
Buteogallus anthracinus, 293-303
Butorides striatus, 390
B. virescens, 242
Calcarius lapponicus, 505-525
Calidris canutus, 743-758
C. fuscicollis, 363
C. mauri, 743-748
C. minutilla, 171
C. pusilla, 248-255, 743-758
 California, 526-543
 Calls, see vocalizations
 Campbell, Scott S., see Adkisson, Curtis S., and
 —
Campylorhynchus megalopterus, 594-596
 Cardinal, 18-26, 380-383, 387, 455-468, 646-651
Cardinalis cardinalis, 18-26, 380-383, 387, 455-
 468, 646-651
Carduelis tristis, 304-307
 Caribbean, 149-150
Carpodacus mexicanus, 646-651, 779
Casmerodius albus, 171, 596-598, 689-700
 Catbird, Gray, 18-27, 320-330, 380-383, 455-468
Catharacta chilensis, 417-429
C. maccormicki, 417-429
C. skua, 417-429
Cathartes aura, 584
Catharus fuscescens, 320-330
C. guttatus, 362
C. minimus, 320-330
C. ustulatus, 320-330
Catoptrophorus semipalmatus, 743-758
Cerorhinca monocerata, 526-543
Chaetura pelagica, 385
 Chamberlin, Michael L., Relationships between
 egg pigmentation and hatching sequence in the
 Herring Gull, 363-365
Charadrius alexandrinus, 248-255
C. melodus, 743-758
C. semipalmatus, 743-758
C. vociferus, 149, 248-255, 602-604
 Chase, Julia, see Burger, Joanna, et al.
Chasiempis sandwichensis, 646-651
 Chat, Yellow-breasted, 107-113, 387
Chelictinia riocourii, 293-303
Chen caerulescens, 275-282
 Chickadee, Black-capped, 156-157, 380-383,
 455-468
 Carolina, 387
 Chilgren, John D., Body composition of captive
 White-crowned Sparrows during postnuptial
 molt, 677-688; and William A. de Graw, Some
 blood characteristics of White-crowned Spar-
 rows during molt, 169-171
Chloroceryle aenea, 242
C. inda, 242
 Chlorophonia, Chestnut-breasted, 47
 Yellow-collared, 47
Chlorophonia flavivirostris, 47
C. pyrrhophys, 47

- Chlorospingus flavovirens*, 47–48
Chlorura chlorura, 779–780
Chondestes grammacus, 779
Chondrohierax urcinatus, 293–303
 Christopher, Ernest A., see Mac Millen, Richard E., et al.
Ciccaba nigrolineata, 242
Circus gallicus, 293–303
Circus cyaneus, 293–303, 374–375, 584
Cistothorus platensis, 359–362
Clangula hyemalis, 383–384
Claravis pretiosa, 242
 Clark, Richard J., Cooper's Hawk hunting in the city, 142–143
 Cleptoparasitism, 728–735
 Clutch size of, *Bubulcus ibis*, 695
Buteo swainsoni, 69
Calcarius lapponicus, 509–511
Carduelis tristis, 304–307
Casmerodius albus, 695
Cistothorus platensis, 360
Egretta thula, 694–695
Eudocimus albus, 115–117, 120
Florida caerulea, 695
Hydranassa tricolor, 694
Podilymbus podiceps, 371–373
Rynchops niger, 711
Coccyzus americanus, 455–468
 Cody, Martin L., and Jared M. Diamond (eds.)
 Ecology and evolution of communities (rev.), 792–794
Colaptes auratus, 369–370, 380–383, 455–468
Colinus virginianus ridgwayi, 4DD
 Collett, S. F. Sizes of snails eaten by Snail Kites and Limpkins in a Costa Rican marsh, 365–367
 Collias, Elsie C., see Collias, Nicholas E., and —
 Collias, Nicholas E., and Elsie C. Collias, Weaverbird nest aggregation and evolution of the compound nest, 50–64; (eds.), External construction by animals (rev.), 400–401
 Colombia, 44–49, 363
 Colorado, 599–601
Columba inornata wetmorei, 4DD
C. livia, 142–143, 143–145, 152–155, 159–160
 Condor, California, 4DD, 8–9DD
 Conner, Richard N., The effect of tree hardness on woodpecker nest entrance orientation, 369–370
Conopys parva, 242
Contopus sordidulus, 46, 362, 779
C. virens, 380–383
 Conway, William, and Allegra Hamer, A 36-year laying record of a Wattleed Crane at the New York Zoological Park, 786–787
 Cook, Robert E., First Pennsylvania photographic record and other eastern sightings of the Lazuli Bunting, 172
 Cooper, J., Jackass Penguins sunning at sea, 586–587
Coragyps atratus, 149, 392
 Cormorant, Brandt's, 526–543
 Olivaceous, 597
Corvus brachyrhynchos, 380–383, 583–585, 782–783
C. corax, 84, 777–778
C. ossifragus, 583–585
C. tropicus, 4DD
 Costa Rica, 86–96, 365–367, 623–645
Cotinga nattererii, 242
Coturnix coturnix, 350–356, 736–742
 Cowbird, Brown-headed, 18–27, 304–307, 386–389, 395, 455–468, 590–593
 Crandall, James, see Lyon, David L., et al.
 Crane, Mississippi Sandhill, 4DD
 Whooping, 4DD; Wattleed, 786–787
 Crawford, Richard D., Polygynous breeding of Short-billed Marsh Wrens, 359–362
 Creeper, Hawaii, 4DD
 Molokai, 4DD
 Crow, Common, 380–383, 583–585, 782–783
 Fish, 583–585
 Cruden, Robert William, and Sharon Marie Hermann-Parker, Defense of feeding sites by Orioles and Hepatic Tanagers in Mexico, 594–596
 Cuckoo, Yellow-billed, 455–468
 Curlew, Bristle-thighed, 222–230
 Eskimo, 158
 Long-billed, 599–601
 Custer, Thomas W. and Frank A. Pitelka, Demographic features of a Lapland Longspur population near Barrow, Alaska, 505–525
Cyanerpes cyaneus, 242
C. lucidus, 242
Cyanocitta cristata, 380–383, 455–468, 781–782
Cyanocorax affinis, 46
Dacnis cayana, 242
 Damman, Doyle L., see Easterla, David A., and —
Damophila julie, 242
 Dau, Christian P., and Jack Paniyak, Hoopoe, a first record for North America, 601
 Davis, David E. (ed.), Behavior as an ecological factor (rev.), 400–401
 de Graw, William A., see Chilgren, John D., and —
 Delacour, Jean, and Dean Amadon, obituary of Marcia Brady Tucker, 805–806
Dendrocincla homochroa, 242
Dendrocolaptes certhia, 242
Dendrocopos borealis, 376–377
D. pubescens, 380–383
D. villosus, 380–383
Dendroica coronata, 362, 320–330, 779
D. discolor, 387, 393
D. kirtlandii, 4DD, 14DD
D. magnolia, 320–330
D. pinus, 387

- D. petechia*, 19-26, 779
D. striata, 47, 320-330
 Derksen, Dirk V., A quantitative analysis of the incubation behavior of the Adélie Penguin, 552-566
 Devillers, Pierre, The skuas of the North American Pacific Coast, 417-429
 Dickcissel, 387-591
 Dickerman, Robert W., review by, 401-402
 Dimond, John B., see Knupp, David M., and —
Diomedea immutabilis, 172, 256-269, 270-274
D. nigripes, 172, 256-269, 526-543
 Diseases and parasites, 212, 276-277
 recent literature on, 5A-7A, 5B-7B, 3C, 4D
 Distribution and annotated lists, recent literature on, 7A-10A, 7B-12B, 3C-5C, 5D
 Distribution of, *Actitis macularia*, 149
 Amazilia franciae, 48
 Anas americana, 790
 Atlaptes atricapillus, 48
 Attila bolivians, 363
 Bangsia rothschildi, 47
 Calidris fuscicollis, 363
 Catharacta maccormicki, 417-429
 Charadrius vociferus, 149
 Chlorophonia flavirostris, 47
 C. pyrrhophys, 47
 Chlorospingus flavovirens, 47-48
 Contopus sordidulus, 46
 Cyanocorax affinis, 46
 Dendroica striata, 47
 Empidonax virescens, 46
 Entomodestes coracinus, 46
 Gallinago undulata, 357
 Haplophadna aureliae, 48
 Heliodoxa imperatrix, 48
 Henicorhina leucoptera, 195-201
 Hirundapus caudacutus, 389
 Ictinia mississippiensis, 168-169
 Irodophanes pulcherrima, 47
 Leistes militaris, 46-47
 Leucosticte australis, 384-385
 Micromonacha lanceolata, 45
 Myadestes ralloides, 48
 Odontorchilus branickii, 46
 Otus ingens, 45
 Pachyrhamphus versicolor, 45
 Panyptila cayennensis, 45
 Passerina amoena, 172
 Pelecanus occidentalis, 588
 Pharomachrus antisianus, 45
 Philydor rufus, 48
 Picumnus castelnaui, 363
 Pipra pipra, 45-46
 Pipraeidea melanonota, 47
 Platycichla leucops, 48
 Psarocolius latirostris, 363
 Pseudocolaptes lawrencii, 45
 Pterodroma inexpectata, 1-3
 Riparia riparia, 46
 Seiurus aurocapillus, 142
 Sicalis flaveola, 48
 Sipia rosenbergi, 45
 Spinus xanthogaster, 48
 Tangara cabanisi, 605-606
 T. vitirolina, 47
 Terenotriccus erythrurus, 46
 Terenura callinota, 48
 Thryothorus fasciatoventris, 46
 Todirostrum nigriceps, 46
 Touit dilectissima, 45
 Turdus poliocephalus, 772
 T. serranus, 48
 Urosticte benjamini, 48
 Upupa epops, 601
 Distribution, spatial, 36-43, 283-292, 526-543, 743-758
 Diving-Petrel, Common, 3
 Dove, Mourning, 158, 350-356, 455-468
 Ringed Turtle, 736-742
 Rock, 142-143, 143-145, 152-155, 159-160
 Dowitcher, 743-758
Dryocopus lineatus, 242
D. pileatus, 369-370
Dryotriorchis spectabilis, 293-303
 Duck, Laysan, 4DD, 17DD
 Mandarin, 608-612
 Mexican, 4DD
 North American Ruddy, 140-142, 343-349
 Wood, 159
 Duke, Gary E., Pellet egestion by a captive Chimney Swift (*Chaetura pelagica*), 385
Dumetella carolinensis, 18-27, 320-330, 380-383, 455-468
 Dunkle, Sidney W., Swainson's Hawks on the Laramie Plains, Wyoming, 65-71
 Eagle, Bald, 140, 293-303, 375, 4DD
 Golden, 789-790
 Madagascar Serpent, 302
 Vulturine Fish, 293-303
 Easterla, David A., and Doyle L. Damman, Unusual food item of Franklin's Gull, 163
 Ebisu, Roy J., see Mac Millen, Richard E., et al.
 Eckhardt, Robert C., Effects of a late spring storm on a local Dusky Flycatcher population, 362
 Ecology and populations, recent literature on, 10A-16A, 12B-16B, 5C-9C, 7D
 Ecology, demography, 86-96, 505-525
 food partitioning, 365-367, 526-543, 726-735
 habitat partitioning, 283-292, 526-543, 664-676, 689-700, 743-758
 population energetics, 114-122, 358-359
 seasonal variation, 240-247
 Ecology of, seabirds, 526-543
 shorebirds, 743-758
 tropical forest birds, 240-247, 283-292
 Ectoparasites on, *Pterodroma inexpectata*, 14

- Ecuador, 86-96
- Egg-laying, 19, 83, 370-371, 371-373, 590-593, 693-695, 786-787
- Eggs, composition of, 350-356
- Eggs, descriptions and measurements, *Anas platyrhynchos*, 350-356
- Cistothorus palensis*, 359-362
- Coturnix coturnix*, 350-356
- Larus argentatus*, 363-365
- L. atricilla*, 350-356
- Molothrus ater*, 590-593
- Pandion haliaetus*, 203-206
- Podilymbus podiceps*, 371-373
- Pterodroma inexpectata*, 11
- Sturnus vulgaris*, 167-168, 350-356
- Turdus migratorius*, 84
- Zenaida macroura*, 350-356
- Egret, Cattle, 689-700
- Great, 171, 596-598, 689-700
- Snowy, 390-391, 597, 689-700
- Egretta thula*, 390-391, 597, 689-700
- Eider, Common, 759-771
- Eisenhauer, John H., and Paniyak, Jack, Parasitic Jaegers prey on adult ptarmigan, 389-390
- Elanoides forficatus*, 293-303, 392
- Elanus leucurus*, 293-303
- Elepaio*, 646-651
- Elliot, Richard D., Hanging behavior in Common Ravens, 777-778
- Elliott, Philip F., Adaptive significance of cowbird egg distribution, 590-593
- Emerald, Andean, 48
- Emlen, John T., Estimation breeding season bird densities from transect counts, 455-468
- Empidonax oberholseri*, 362, 779
- E. traillii*, 362
- E. virescens*, 46
- Entomodestes coracinus*, 46
- Ervin, Stephen, Nest appropriation and mate replacement in the Bushtit, 598-599
- Erwin, R. Michael, Black Skimmer breeding ecology and behavior, 709-717
- Erythrorchis radiatus*, 293-303
- Eucometis penicillata*, 242
- Eudocimus albus*, 114-122, 164-167
- Eugens fulgens*, 448-454
- Euphonia minuta*, 242
- Eurypyga helias*, 242
- Eutriorchis astur*, 302
- Evans, David L., Uncommon natural injuries in hawks, 585-586
- Evolution and genetics, recent literature on, 16A-18A, 16B-17B, 9C, 9D
- Evolution of, compound nest, 50-64
- intratropical migration, 97-106
- occipital spot, 293-303
- Falco mexicanus*, 371
- F. peregrinus*, 4DD, 10-11DD
- F. rusticolus*, 442-447
- Falcon, Peregrine, 4DD, 10-11DD
- Prairie, 371
- Falls, J. Bruce, see Zach, Reto and —
- Ficken, Millicent S., Avian play, 573-582; and Steve B. Witkin, Responses of Black-capped Chickadee flocks to predators, 156-157
- Finch, Brown-capped Rosy, 384-385
- House, 646-651, 779
- Saffron, 48
- Fitzpatrick, John W., John W. Terbough, and David E. Willard, A new species of Wood-Wren from Peru, 195-201
- Fledging, success of, *Buteo swainsoni*, 69-70
- Calcarius lapponicus*, 505-525
- Carduelis tristis*, 304-307
- Cistothorus platensis*, 359-362
- Hirundo rustica*, 596
- Malothrus ater*, 304-307
- Pandion haliaetus*, 203-207
- Rynchops niger*, 709-717
- Turdus migratorius*, 85
- Fleming, Sr., Robert L., Robert L. Fleming, Jr. and Lain Singh Bangdel, Birds of Nepal, with reference to Kashmir and Sikkim (rev.), 617-618
- Flicker, Common, 369-370, 380-383, 455-468
- Florida, 689-700
- Florida caerulea*, 689-700
- Florisuga mellivora*, 242
- Flycatcher, Ash-throated, 779
- Dusky, 362, 779
- Great Crested 380-383, 455-468
- Piratic, 97-106
- Ruddy-tailed, 46
- Wied's Crested, 157-158
- Willow, 362
- Foliage-Gleaner, Buff-fronted, 48
- Food and feeding habits of *Accipiter cooperi*, 142-143
- Aquila chrysaetos*, 789-790
- Aramus guarauna*, 365-367
- Arenaria interpres*, 743-758
- Buteo swainsoni*, 70
- Calidris alba*, 743-758
- C. canutus*, 743-758
- C. mauri*, 743-758
- C. pusilla*, 743-758
- Catoptrophorus semipalmatus*, 743-758
- Cerorhinca monocerata*, 526-543
- Chaetura pelagica*, 385
- Charadrius melodus*, 743-758
- C. semipalmatus*, 743-758
- Chen caerulescens*, 275-282
- Corvus brachyrhynchos*, 782-783
- Dendrocopos borealis*, 376-377
- Diomedea nigripes*, 526-543
- Egretta thula*, 390-391
- Eudocimus alba*, 117-121
- Fulmarus glacialis*, 526-543

- Gavia arctica*, 526-543
Haematopus palliatus, 743-758
Hypocnemis spp., 284-289
Lanius ludovicianus, 391-392
Larus californicus, 526-543
L. calus, 526-543
L. glaucescens, 526-543
L. heermanni, 526-543
L. philadelphia, 526-543
L. pipixcan, 163
Legatus leucophaeus, 103-104
Limnodromus griseus, 743-758
Myrmotherula spp., 284-289
Oceanodroma furcata, 385-386
Oxyura jamaicensis, 344-345
Pandion haliaetus, 146-149
Pluvialis squatarola, 743-758
Procnias tricarunculata, 626-629
Ptychoramphus aleutica, 526-543
Puffinus creatopus, 526-543
Rissa tridactyla, 526-543
Rostrhamus sociabilis, 365-367
Rynchops niger, 713-715
Seiurus aurocapillus, 145-146
Setophaga ruticilla, 373-374
Spizella pusilla, 308-316
Stercorarius pomarinus, 526-543
Synthliboramphus antiquum, 526-543
Tringa flavipes, 743-758
T. melanoleuca, 743-758
Uria aalge, 526-543
Vireo flavoviridis, 101-102
 Ford, Norman L., review by, 184-185
 Forsythe, Dennis M., review by, 797-798
 Fossils, 787-789
 Foster, Mercedes S., review by, 618
 Frith, H. J. and J. H. Calaby (eds.) Proceedings of the 16th international ornithological congress (rev.), 615
 Frost, Herbert H., see Whitmore, Robert C., et al.
 Fugle, G. N. and S. I. Rothstein, Clutch size determination, egg size, and eggshell thickness in the pied-billed Grebe, 371-373
 Fulmar, Northern, 526-543
Fulmarus glacialis, 526-543

Gallinago undulata, 357
Gallinula chloropus, 4DD
 Gallinule, Hawaiian, 4DD, 17DD
 Gamboa, George J., Predation on Rufous Hummingbird by Wied's Crested Flycatcher, 157-158
Gampsonyx swainsonii, 293-303
Garrulax canorus, 646-651
 Gauthreaux, Jr., Sidney A., review by, 798-799
Gavia arctica, 526-543
 General biology, recent literature on, 18A-25A, 17B-21B, 9C-11C, 10D
 Genoways, Hugh H., see McCaugh, M. Houston, and —
 George, William G., and Timothy Kimmel, A slaughter of mice by Common Crows, 782-783
Geothlypis trichas, 320-330, 455-468
Geotrygon veraguensis, 242
Geranoaetus melanoleucus, 293-303
Geranospiza caerulescens, 293-303
 Gill, Jr., Robert, Unusual foraging by a Forktailed Storm Petrel, 385-386
 Gillett, William Humphrey, see Hayward, Jr., James L., et al.
 Gilpin, Michael E., Group selection in predator-prey communities (rev.), 177-178
 Gladstone, Douglas, Leapfrog feeding in the Great Egret, 596-598
 Gnatcatcher, Blue-gray, 387
 Goertz, John W., Additional records of Brown-headed Cowbird nest parasitism in Louisiana, 386-389
 Goldfinch, American, 304-307, 455-468
 Goodman, I. J. and Martin W. Schein (eds.), Birds. Brain and behavior (rev.), 400
 Goodwin, Gregory A., Golden Eagle predation on pronghorn antelope, 789-790
 Goose, Aleutian Canada, 4DD, 7DD
 Lesser Snow, 275-282
 Gorton, Robert E., Jr., Territorial interactions in sympatric Song Sparrow and Bewick's Wren populations, 701-708
 Goshawk, 156, 293-303, 585-586, 652-663
 Grackle, Common, 455-468
 Graham, Jr., Frank, Gulls, a social history (rev.), 185-186
 Graul, Walter D., see McCallum, D. Archibald, et al.
 Graves, Gary R., see O'Neill, John P., and —
 Gray, Betty Jean, see Miller, Michael R., et al.
 Grebe, Pied-billed, 371-373
 Green, Janet C., and Robert B. Janssen, Minnesota birds/where, when, and how many (rev.), 184-185
 Gregg, Larry E., and James B. Hale, Woodchuck nesting habitat in northern Wisconsin, 489-493
 Grosbeak, Black-headed, 779
 Rose-breasted, 380-383, 455-468
 Growth and development of, *Aix galericulata*, 608-612
Cistothorus platensis, 361
Coturnix coturnix, 736-742
Eudocimus albus, 164-167
Rynchops niger, 712-713
Spizella pusilla, 316-317
Streptopelia risoria, 736-742
 Grubb, Jr., Thomas C., Weather-dependent foraging in Ospreys, 146-149; and William M. Shields, Bald Eagle interferes with an active Osprey nest, 140
Grus americana, 4DD

- G. canadensis*, 4DD
 Guatemala, 168–169, 773–775
 Gull, Bonaparte's, 526–543
 California, 526–543
 Franklin's, 163
 Glaucous-winged, 375, 526–543
 Heerman's, 526–543
 Herring, 363–365, 583–585, 726–735
 Laughing, 350–356, 583–585
 Lesser Black-backed, 726–735
 Mew, 526–543
 Ring-billed, 469–478
 Western, 526–543
Gymnogyps californianus, 4DD, 8DD
Gymnorhinus cyanocephalus, 494–504
Gypaetus barbatus, 293–303
Gypohierax angolensis, 293–303
Gyps fulvus, 293–303
 Gyrfalcon, 442–447
- Habia fuscicauda*, 242
Haematopus palliatus, 743–758
 Haffer, J., Avian speciation in tropical South America (rev.), 178–180; Avifauna of northwestern Colombia, South America (rev.), 178–180
 Hafner, John C., and Mark S. Hafner, The occipital spot in the *Accipitridae* (*Falconiformes*), 293–303
 Hafner, Mark S., see Hafner, John C., and —
 Hahn, D. Caldwell, see Burger, Joanna, et al.
 Haines, Howard, see Purdue, James R., and —
 Hale, James B., see Gregg, Larry E., and —
Haliaeetus leucocephalus, 140, 293–303, 375, 4DD
Haliastur indus, 293–303
 Hamer, Allegra, see Conway, William and —
 Hamerstrom, Frances, Birds of prey of Wisconsin (rev.), 186
Hamirostra melanosternon, 293–303
Haplohaedia aureliae, 48
 Hardy, John William, reviews by, 185, 403–404
 Harlow, Richard F., and Michael R. Lennartz, Foods of nestling Red-cockaded Woodpeckers in coastal South Carolina, 376–377
Harpagus bidentatus, 242, 293–303
Harpia harpyja, 293–303
Harpyopsis novaeguinae, 293–303
 Harrier, 374–375
 Harris, Michael, A field guide to the birds of the Galapagos (rev.), 181–183
 Harrison, James M., Bird taxidermy (rev.), 804
 Hatching, success of, *Bubulcus ibis*, 696–699
 Bugeranus carunculatus, 786–787
 Carduelis tristis, 304–307
 Casmerodius albus, 696–699
 Cistothorus platensis, 360
 Egretta thula, 696–699
 Florida caerulea, 696–699
 Hydranassa tricolor, 696–699
 Molothrus ater, 388
 Pterodroma inexpectata, 13
 Rynchops niger, 711–712
 Turdus migratorius, 84
 Haverschmidt, F., Roosting habits of the Swallow-tailed Kite, 392; Allopreening in the Black Vulture, 392
 Hawaii, 646–651
 Hawk, Cooper's, 142–143, 293–303
 Harris', 370–371, 587–588
 Marsh, 584
 Red-shouldered, 374–375, 585
 Red-tailed, 293–303, 586, 593–594
 Sharp-shinned, 156–157, 586
 Swainson's, 65–71
 Hawk-eagle, Ornate, 293–303
 Hay, John, Spirit of survival, and natural and personal history of terns (rev.), 185–186
 Hayward, Jr., James L., William Humphrey Gillett, Charles J. Amlaner, Jr., and John F. Stout, Predation on gulls by Bald Eagles in Washington, 375
Heliodoxa imperatrix, 48
Heliothrix barroti, 242
Hemignathus lucidus affinis, 4DD
H. l. hanapepe, 4DD
H. procerus, 331–342, 4DD
H. wilsoni, 331–342, 4DD
 Hendricks, David Paul, Brown-capped Rosy Finch nesting in New Mexico, 384–385
Henicopernis longicauda, 293–303
Henicorhina leucophrys, 198–201
H. leucoptera sp. nov., 195–201
 Hermann-Parker, Sharon Marie, see Cruden, Robert William and —
 Heron, Green, 390
 Little Blue, 689–700
 Louisiana, 689–700
Heteroscelus brevipes, 604
H. incanus, 222–230
Heterospizias meridionalis, 293–303
Hieraaetus morphnoides, 293–303
 Hilty, Steven L., *Chlorospingus flavovirens* rediscovered, with notes on other Pacific Columbian and Cauca Valley birds, 44–49; and Simon, David, The Azure-rumped Tanager in Mexico with comparative remarks on the Gray-and-gold Tanager, 605–606
Himantopus mexicanus, 4DD, 17DD
Himatione sanguinea, 331–342
Hirundapus caudacutus, 389
Hirundo rustica, 149–150, 596, 779–780
 Honey creeper, Golden-collared, 47
 Crested, 4DD
 Höhn, E. Otto, and Clait E. Braun, Seasonal thyroid gland histophysiology and weight in White-tailed Ptarmigan, 544–551
 Hoopoe, 601
 Howe, Marshall A., see Burger, Joanna, et al.

- Hummingbird, Black-chinned, 448-454
 Blue-throated, 448-454
 Broad-tailed, 393-395
 Rivoli's, 448-454
 Rufous, 157-158
- Hydranassa tricolor*, 689-700
- Hyalocichla mustelina*, 380-383, 455-468
- Hylophilus ochraceiceps*, 242
- Hypocnemis cantator*, 283-292
- Ibis, American White, 114-122, 164-167
 Glossy, 664-676
 White-faced, 664-676
- Icteria virens*, 107-113, 387
- Icterus cucullatus*, 594-596
- I. galbula*, 455-468, 594-596
- I. spurius*, 387
- Ictinia mississippiensis*, 168-169, 293-303
- Imhof, Thomas A., The Greater Shearwater in the northern Gulf of Mexico, 163-164
- Incubation and incubation period of, *Bubulcus ibis*, 696
Casmerodius albus, 696
Egretta thula, 696
Florida caerulea, 696
Hydranassa tricolor, 696
Pterodroma inexpectata, 11-13
Pygoscelis adeliae, 552-566
Rynchops niger, 711
Turdus migratorius, 607-608
- Injuries to, *Accipiter gentilis*, 585-586
A. striatus, 586
Buteo jamaicensis, 586
- Iridophanes pulcherrima*, 47
- Iridoprocne bicolor*, 779-780
- Inouye, David W., see Waser, Nickolas M., and —
- Iversen, Eve, An unrecorded specimen of Eskimo Curlew from New Jersey, 158
- Jacamerops aurea*, 242
- Jackson, Jerome A., Red-cockaded Woodpecker and pine red heart disease, 160-163
- Jackson, William B., see Bruggers, Richard L., and —
- Jaeger, Long-tailed, 443-445
 Parasitic, 389-390
 Pomarine, 526-543
- Jay, Black-chested, 46
 Blue, 380-383, 455-468, 781-782
 Piñon, 494-504
- Johnsgard, Paul A., Waterfowl of North America (rev.), 173-177
- Johnson, Oscar W., Plumage and molt in shorebirds summering at Enewetak Atoll, 222-230
- Johnson, R. R., E. L. Smith, and D. S. Tomko, First ovenbird specimens from Arizona, 142
- Joyner, David E., Behavior of Ruddy Duck broods in Utah, 343-349
- Junco caneiceps*, 362, 779
- J. hyemalis*, 320-330
- Junco, Dark-eyed, 320-330
 Gray-headed, 362, 779
- Kale, II, Herbert W., editor of Recent Literature, 1A-28A, 1B-27B, 1C-16C; see Maxwell, II, George R., and —
- Kansas, 86-96, 787-789
- Karr, James R., 240-247; review by, 402-403
- Keeley, Bruce R., see Warham, John et al.
- Keeton, W. T., see Schmidt-Koenig, K., and —
- Kennington, John, see Zipko, Stephen J., and —
- Ketterson, Ellen D., Male Prairie Warbler dies during courtship, 393
- Kilham, Lawrence, Early breeding season behavior of Red-headed Woodpeckers, 231-239; Altruism in nesting Yellow-bellied Sapsucker, 613-614; Nesting behavior of Pale-billed Woodpeckers in Guatemala, 773-774; Pale-billed Woodpeckers robbed of nest hole by Colared Araçaris, 774-775
- Killdeer, 149, 248-255, 602-604
- Kinimel, Timothy, see George, William G., and —
- King, Ben, reviews by, 617-618, 801
- Kite, Everglade 4DD, 5-10DD
 Mississippi, 168-169
 Snail, 365-367
 Swallow-tailed, 392
- Kittiwake, Black-legged, 526-543
- Klais guimeti*, 242
- Kligerman, Jack (ed.), The birds of John Burroughs, keeping a sharp lookout (rev.), 186
- Knot, 743-758
- Knupp, David M., Ray B. Owen, Jr., and John B. Dimond, Reproductive biology of American Robins in northern Maine, 80-85
- Kroodsma, Donald E., and Linda D. Parker, Vocal virtuosity in the Brown Thrasher, 783-785
- Kull, Jr., Robert C., Color selection of nesting material by Killdeer, 602-604
- Kuroda, Nagamichi, Parrots of the world in life colours (rev.), 615-616
- Kushlan, James A., Population energetics of the American White Ibis, 114-122; Differential growth of body parts in the White Ibis, 164-167
- Lack, David, Evolution illustrated by waterfowl (rev.), 618-619; Island biology illustrated by the land birds of Jamaica (rev.), 794-797
- Lagopus lagopus*, 443-445, 612-613
- L. leucurus*, 544-551
- L. mutus*, 443-445
- Lampornis clemenciae*, 448-454
- Laniocera rufescens*, 242
- Lanius excubitor*, 156-157
- L. ludovicianus*, 28-35, 391-392
- Larus argentatus*, 363-365, 583-585, 726-735

- L. atricilla*, 350–356, 583–585
L. californicus, 526–543
L. canus, 526–543
L. delawarensis, 469–478
L. fuscus, 726–735
L. glaucescens, 375, 526–543
L. heermanni, 526–543
L. occidentalis, 526–543
L. philadelphia, 526–543
L. pipixcan, 163
 Laughing-thrush, *Melodius*, 646–651
 LeCroy, Mary, reviews by, 185–186
 LeFebvre, Eugene A., Courtship display and inter-specific isolation between Laysan and Black-footed Albatrosses, 172; Laysan Albatross breeding behavior, 270–274
Legatus leucophaius, 97–106, 242
Leiothrix lutea, 646–651
 Leiothrix, Red-billed, 646–651
Leistes militaris, 46–47
 Lemke, Thomas O., Copulation observed in Maroon-tailed Parakeets in Meta, Colombia, 773
 Lennartz, Michael R., see Harlow, Richard F., and —
Leptodon cayanensis, 293–303
Leptotila cassinii, 242
Leucopternis albicollis, 242, 293–303
L. semiplumbea, 242
Leucosticte australis, 384–385
 Lewis, Harrison Flint, obituary of, 405
Limnodromus griseus, 743–758
Limnolyphus swainsonii, 387
 Limpkin, 365–367
 Line, Les, and Franklin Russell, The Audubon Society book of wild birds (rev.), 185
Lonchura punctulata, 646–651
 Longevity, 393–395, 516
 Longspur, Lapland, 505–525
 Loon, Arctic, 526–543
Lophoictinia isura, 293–303
Lophaetus occipitalis, 293–303
 Louisiana, 386–389
 Lowther, Peter E., Bilateral size dimorphism in House Sparrow gynandromorphs, 377–380
Loxops coccinea coccinea, 4DD
L. c. ochracea, 4DD
L. maculata, 331–342
L. m. mana, 4DD
L. m. montana, 4DD
L. virens, 331–342, 646–651
Lurocalis semitorquatus, 242
 Lyon, David L., James Crandall, and Mark McKone, A test of the adaptiveness of interspecific territoriality in the Blue-throated Hummingbird, 448–454
 MacMillen, Richard E., G. Causey Whittow, Ernest A. Christopher, and Roy J. Ebusu, Oxygen consumption, evaporative water loss, and body temperature in the Sooty Tern, 72–79
Machaerhamphus alcinus, 293–303
 MacRoberts, Michael H., and Barbara R. MacRoberts, Social organization and behavior of the Acorn Woodpecker in Central coastal California (rev.), 616–617
 Mader, William J., Harris' Hawks lay three clutches of eggs in one year, 370–371; Chemical residues in Arizona Harris' Hawk eggs, 587–588
 Maine, 80–85, 790
 Mallard, 350–356
Manacus vitellinus, 242
 Management and conservation, recent literature on, 25A–26A, 21B, 11C–12C, 12D
 Manakin, White-crowned, 45–46
 Marler, Peter R., recipient of Elliott Coues Award, 139
 Marshall Islands, 222–230
 Marshall, Joe T., Audiospectrograms with pitch scale: a universal "language" for representing bird songs graphically, 150–152
 Martin, Larry D., and Orville Bonner, An immature specimen of *Baptornis advenus* from the Cretaceous of Kansas, 787–789
 Martin, Purple, 395
 Maxwell, II, George R., and Herbert W. Kale II, Breeding biology of five species of herons in coastal Florida, 689–700
 Mayfield, Harold F., review by, 799–801
 Mayr, Ernst, Evolution and the diversity of life. Selected essays (rev.), 404
 McCallum, D. Archibald, Walter D. Graul, and Ronald Zaccagnini, The breeding status of the Long-billed Curlew in Colorado, 599–601
 McGaugh, M. Houston, and Hugh H. Genoways, State laws as they pertain to scientific collecting permits (rev.), 185
 McKone, Mark, see Lyon, David L., et al.
 McLandress, Robert M., see Miller, Michael R., et al.
 McNabb, F. M. Anne, and Roger A. McNabb, Thyroid development in precocial and altricial avian embryos, 736–742
 McNabb, Roger A., see McNabb, F. M. Anne, and —
 Meadowlark, Eastern, 387, 591–593
 Measurements, see weights and measurements
Megatriorchis doriae, 293–303
Melamprosops phaeosoma, 4DD
Melanerpes carolinus, 455–468
M. erythrocephalus, 231–239
Meleagris gallopavo, 159
Melierax metabates, 293–303
Melospiza lincolni, 320–330, 362
M. melodia, 19–21, 152–155, 455–468, 701–708
 Melville, David, Gray-rumped Tattlers catching fish, 604

- Memoriam (see also Obituary), Nice, Margaret Morse, 431-441
- Mexico, 588, 594-596, 605-606
- Micrastur mirandollei*, 242
- M. ruficollis*, 242
- M. semitorquatus*, 242
- Micromanacha lanceolata*, 45
- Middleton, A. L. A., Effect of Cowbird parasitism on American Goldfinch nesting, 304-307
- Migration and orientation, recent literature on, 21B-23B, 12C-13C, 13D
- Migration and orientation of *Accipiter gentilis*, 652-663
- Catharacta maccormicki*, 427-428
- Catharus fuscescens*, 320-330
- C. minimus*, 320-330
- C. ustulatus*, 320-330
- Dendroica coronata*, 320-330
- D. magnolia*, 320-330
- D. striata*, 320-330
- Dumetella carolinensis*, 320-330
- following offshore drift, 320-330
- Geothlypis trichas*, 320-330
- Hirundo rustica*, 149-150
- Junco hyemalis*, 320-330
- Legatus leucophaius*, 97-106
- Melospiza lincolni*, 320-330
- Mniotilta varia*, 320-330
- nocturnal passerines, 479-488
- Passerina cyanea*, 320-330
- Seiurus aurocapillus*, 320-330
- S. noveboracensis*, 320-330
- Setophaga ruticilla*, 320-330
- Vireo flavoviridis*, 97-106
- V. gilvus*, 320-330
- V. griseus*, 320-330
- V. olivaceus*, 320-330
- V. philadelphicus*, 320-330
- V. solitarius*, 320-330
- Wilsonia pusilla*, 320-330
- Zonotrichia albicollis*, 320-330
- Z. leucophrys*, 320-330
- Miller, David B., Two-voice phenomenon in birds: further evidence, 567-572
- Miller, Lynne M., see Burger Joanna, and —
- Miller, Michael R., Robert M. McLandress, and Betty Jean Gray, The display flight of the North American Ruddy Duck, 140-142
- Milvus migrans*, 293-303
- Mionectes olivaceus*, 242
- Mirhosseyni, A. Adhami, see Scott, D. A., et al.
- Miscellaneous, recent literature, 26A-27A, 23B, 13D
- Mississippi, 160-163
- Mitrospingus cassinii*, 242
- Mniotilta varia*, 320-330, 380-383
- Moho braccatus*, 4DD
- Molothrus ater*, 18-27, 304-307, 386-389, 395, 455-468, 590-593, 15DD
- Molts and plumages, *Arenaria interpres*, 222-230
- Catharacta maccormicki*, 420-426
- Henicorhina leucoptera*, 195-197
- Heteroscelus incanus*, 222-230
- Numenius phaeopus*, 222-230
- N. tahitiensis*, 222-230
- Pluvialis dominica*, 222-230
- Zenaida macroura*, 158
- Zonotrichia leucophrys*, 169-171, 677-688
- Monklet, Lanceolated, 45
- Montevocchi, William A., Predation in a salt marsh Laughing Gull colony, 583-585
- Morejohn, G. Victor, see Baltz, D. M. and —
- Morphnus guianensis*, 293-303
- Morrison, Michael L., see Balda, Russell P., et al.
- Mortality in, *Dendroica discolor*, 393
- Empidonax oberholseri*, 362-363
- spring migrants, 778-781
- Morton, Eugene S., Intra-tropical migration in the Yellow-green Vireo and Piratic Flycatcher, 97-106; review by, 183-184
- Mosher, James A., see Whitmore, Robert C., et al.
- Mueller, Helmut C., Daniel D. Berger, and George Allez, The periodic invasions of Goshawks, 652-663
- Munia, Spotted, 646-651
- Munro, J., and J. Bédard, Crèche formation in the Common Eider, 759-771
- Murre, Common, 526-543
- Müller, P., The dispersal centers of terrestrial vertebrates in the neotropical realm (rev.), 178-180
- Myadestes ralloides*, 48
- Myers, Gerald R., and David W. Waller, Helpers at the nest in Barn Swallows, 596
- Myiarchus crinitus*, 380-383, 455-468, 779
- Myiopagis caniceps*, 242
- Myrmeciza exaul*, 242
- Myrmotherula axillaris*, 283-292
- M. brachyura*, 242, 283-292
- M. erythrura*, 283-292
- M. hauxwelli*, 283-292
- M. menetriesii*, 283-292
- M. ornata*, 283-292
- Necrosyrtes monachus*, 293-303
- Nene, 4DD, 17DD
- Neochelidon tibialis*, 242
- Nest and nest site of, *Aix sponsa*, 159
- Alauda arvensis*, 646-651
- Bubulcus ibis*, 689-700
- Buteo swainsoni*, 66-67
- Butorides striatus*, 390
- Cardinalis cardinalis*, 646-651
- Carpodacus mexicanus*, 646-651
- Casmerodius albus*, 689-700
- Charadrius vociferus*, 602-604

- Chasiempis sandwichensis*, 646–651
Colaptes auratus, 369–370
Columba livia, 159–160
Dryocopus pileatus, 369–370
Egretta thula, 689–700
Falco mexicanus, 371
Florida caerulea, 689–700
Garrulax canorus, 646–651
Hydranassa tricolor, 689–700
Leiothrix lutea, 646–651
Lonchura punctulata, 646–651
Loxops virens, 646–651
Pandion haliaetus, 203–209
Philetarius socius, 50–63
Philohela minor, 489–493
Picoides borealis, 160–163
P. pubescens, 369–370
P. villosus, 369–370
Plegadis chihi, 664–676
P. falcinellus, 664–676
Plocepasser mahali, 50–63
Pseudonigrita arnaudi, 50–63
Psittirostra bailleui, 646–651
Pterodroma inexpectata, 3–4
Sayornis phoebe, 367–369
Sterna maxima, 36–43
Turdus migratorius, 81
Zosterops japonica, 646–651
 Nest parasitism, 18–27, 304–307, 386–389, 590–593
 New Jersey, 158
 New Mexico, 384–385
 New species, 195–201, 409–416
 subspecies, 772–773
 New Zealand, 1–17
 Nice, Margaret Morse, Memorial, 430–441
 Noakes, David L. G., see Armstrong, Edward R., and ———
Numenius americanus, 599–601
N. borealis, 158
N. phaeopus, 222–230, 443
N. tahitiensis, 222–230
 Nuthatch, Red-breasted, 455–468
 White-breasted, 380–383, 455–468
Nyctibius grandis, 242

 Obituary (see also Memoriam), Archbold, Richard, 186–187
 Lewis, Harrison Flint, 405
 Tucker, Marcia Brady, 805–806
Oceanodroma fucata, 385–386
Odontophorus gujanensis, 242
Odontorchilus branickii, 46
 Oldsquaw, 383–384
 O'Neill, John P., and Gary R. Graves, A new genus and species of owl (Aves: *Strigidae*) from Peru, 409–416
 Ontario, 18–27, 158–159
 O'o, Kauai, 4DD
Opornis formosa, 387
O. tolmiei, 779
 Orians, Gordon H., recipient of Brewster Award, 138
 Orientation by, *Columba livia*, 143–145
 nocturnal migrants, 320–330
 Oriole, Hooded, 594–596
 Northern, 455–468, 594–596
 Orchard, 387
Oroaetus isidor, 293–303
 Oropendola, Band-tailed, 363
 Osprey, 140, 146–149, 202–221
Otus guatemalae, 242
O. ingens, 45
 O'u, 4DD
 Ovenbird, 142, 145–146, 320–330, 380–383
 Owen, Ray B., see Knupp, David M., et al.
 Owl, Barn, 584
 Great Horned, 584
 Rufescent Screech, 45
 Saw-whet, 156–157
 Short-eared, 584
 Owllet, Long-whiskered, 409–416
Oxyura jamaicensis, 140–142, 343–349
 Oystercatcher, 743–758

Pachyptila turtur, 4
Pachyrhamphus versicolor, 45
 Pacific, 417–429, 526–543, 772–773
 Paleontology, see Fossils
 Palila, 646–651, 4DD, 18DD
 Palmer, Ralph S. (ed.), Handbook of North American birds, Vol. 2 and 3 (rev.), 172–177
Palmeria dolei, 331–342, 4DD
 Panama, 240–247
Pandion haliaetus, 140, 146–149, 201–221
 Paniyak, Jack, see Dau, Christian P., and ———; see Eisenhauer, John H., and ———
Panyptila cayennensis, 45
 Papua-New Guinea, 772–773
Parabuteo unicinctus, 293–303, 370–371, 587–588
 Parakeet, Maroon-tailed, 773
 Parasites, see Diseases and ———; see also Ectoparasites
 Parasitism, see Nest Parasitism
 Parker, H., see Allen, H. M. and ———
 Parker, James W., Second record of the Mississippi Kite in Guatemala, 168–169
 Parker, Linda D., see Kroodsmma, Donald E., and ———
 Parrot, Puerto Rican, 4DD
 Parrotbill, Maui, 4DD
 Parrotlet, Red-winged, 45
Parus atricapillus, 156–157, 380–383, 455–468
P. bicolor, 380–383
P. carolinensis, 387
Passer domesticus, 358–359, 377–380
Passerculus sandwichensis, 362
Passerina amoena, 172, 779

- P. cyanea*, 320–330, 387, 455–468
 Paterson, Jr., Robert L., An unusual Rock Dove nest, 159–160
 Pattee, Oliver H., and Samuel L. Beason, Rio Grande turkey hens with leg spurs, 159
 Pearson, David L., Ecological relationships of small antbirds in Amazonian bird communities, 283–292
 Pearson, Ronald, The avian brain (rev.), 400
Pelecanoides urinotrix, 3
Pelecanus occidentalis, 588, 785–786, 4DD, 6DD
 Pelican, Brown, 588, 785–786, 4DD, 6–7DD
 Penguin, Adélie, 552–566
 Jackass, 586–587
 Pennsylvania, 142–143, 172
Pernis celebensis, 293–303
 Perrins, Christopher, Birds/Their life, their ways, their world (rev.), 403–404
 Peru, 195–201, 409–416
 Pesticides and pollution, recent literature on, 23B–25B, 13C–14C, 14D
 Pesticides, see Toxic Chemicals
 Petrel, Mottled, 1–17
Petrochelidon pyrrhonota, 718–725, 779
 Pewee, Eastern Wood, 380–383
 Western Wood, 46, 362, 779
Phaenostictus mcleannani, 242
Phalacrocorax olivaceus, 597
P. penicillatus, 526–543
Pharomachrus antisianus, 45
Phaeornis obscurus myadestina 4DD
P. o. rutha 4DD
P. palmeri, 4DD
Pheucticus ludovicianus, 380–383, 455–468
P. melanocephalus, 779
Philetarius socius, 50–63
Philohela minor, 489–493
Philydor rufus, 48
Phloeocastes haematogaster, 242
P. melanoleucos, 242
 Phoebe, Eastern, 367–369
 Physiology, energetics, 114–122, 358–359, 595, 677–688, 718–725
 hematocrit, 169–171
 hormones, 544–551, 736–742
 osmoregulation, 248–255
 recent literature on, 25B–26B, 14C, 15D
 thermoregulation, 58, 72–79, 502–504
Picooides borealis, 160–163, 4DD
P. pubescens, 455–468
 Piculet, Plain-breasted, 363
Picumnus castelnau, 363
 Pigeon, Puerto Rican Plain, 4DD
Pionus menstruus, 242
Pipilo erythrophthalmus, 380–383, 455–468, 779–780
 Pipit, Water, 362
Pipra pipra, 45–46
Pipraeidea melanonota, 47
Piranga flava, 594–596
P. ludoviciana, 779
P. olivacea, 380–383
 Pitcher, Edward J., Nest site selection for Prairie Falcons, 371
 Pitelka, Frank A., see Custer, Thomas W., and —
Pithechophaga jefferyi, 293–303
Pittasoma michleri, 242
Platycichla leucops, 48
Plegadis chihi, 664–676
P. falcinellus, 664–676
Plocepasser mahali, 50–63
 Plover, American Golden, 222–230, 443–445
 Black-bellied, 743–758
 Piping, 743–758
 Semipalmated, 743–758
 Snowy, 248–255
 Plumages, see molts and —
Pluvialis dominica, 222–230, 443–445
P. squatarola, 743–758
Podilymbus podiceps, 371–373
Polemaetus bellicosus, 293–303
Polioptila caerulea, 387
Polyboroides typicus, 293–303
 Polygamy in *Cistothorus platensis*, 359–362
 Po'o Uli, 4DD
 Prairie Chicken, Attwater's, 3DD, 4DD
 Predation by, *Accipiter cooperi*, 142–143
 Aquila chrysaetos, 789–790
 Asio flammeus, 584
 Bubo virginianus, 584
 Casmerodius albus, 171
 Cathartes aura, 584
 Circus cyaneus, 584
 Corvus brachyrhynchos, 583–585, 782–783
 C. ossifragus, 583–585
 Haliaeetus leucocephalus, 375
 Heteroscelus brevipes, 604
 Larus argentatus, 583–585
 L. pipixcan, 163
 Myiarchus tyrannulus, 157–158
 Stercorarius parasiticus, 389–390
 Tyto alba, 584
 Predation on, *Calcarius lapponicus*, 511–512, 522–523
 Calidris minutilla, 171
 Columba livia, 142–143
 Lagopus lagopus, 389–390
 Larus atricilla, 583–585
 L. glaucescens, 375
 Pandion haliaetus, 213
 Parus atricapillus, 156–157
 Selasphorus rufus, 157–158
 Turdus migratorius, 84
 Prions, Fairy, 4
Procnias tricarunculata, 623–645
Progne subis, 395
Protonotaria citrea, 387

- Psaltriparus minimus*, 598–599
Psarocolius latirostris, 363
Pseudocoloptes lawrencii, 45
Pseudonestor xanthophrys, 4DD
Pseudonigrita arnaudi, 50–63
Psittirostra bailleui, 646–651, 4DD
P. cantans, 331–342
P. psittacea, 331–342, 4DD
 Ptarmigan, Rock, 443–445
 White-tailed, 544–551
 Willow, 443–445, 612–613
Pterodroma inexpectata, 1–17
Pteroglossus torquatus, 242
Ptychoramphus aleutica, 526–543
Puffinus creatopus, 526–543
P. gravis, 163–164
P. griseus, 3–4, 526–543
P. tenuirostris, 4, 526–543
 Puffleg, Greenish, 48
 Pulich, Warren M., The Golden-cheeked Warbler (rev.), 799–801
 Purdue, James R., and Howard Haines, Salt water tolerance and water turnover in the Snowy Plover, 248–255
Pygoscelis adeliae, 552–566
Pyrhura melanura, 773
- Quail, Coturnix, 350–356, 736–742
 Quetzal, crested, 45
Quiscalus quiscula, 455–468
- Raikow, Robert J., Pectoral appendage myology of the Hawaiian Honeycreepers (*Drepanididae*), 331–342
 Rail, Clapper, 4DD, 11–12DD
Rallus longirostris, 4DD, 11–12DD
Ramphastos tucanus, 775–777
Ramphocaenus rufiventer, 242
 Rand, A. L., obituary of Richard Archbold, 186–187
 Raven, Common, 84, 777–778
 Redstart, American, 320–330, 373–374, 380–383
 Reese, Jan G., Reproductive success of ospreys in central Chesapeake Bay, 201–221
 Remsen, Jr., J. V., Five bird species new to Colombia, 363
 Repenning, Robert, Great Egret preys on sandpiper, 171
Rhytipterna holerythra, 242
 Ricklefs, Robert E., Variation in size and quality of the Starling egg, 167–168; Composition of eggs of several bird species, 350–356; reviews by, 619–621, 794–797; and George Bloom, Components of avian breeding productivity, 86–96
 Ridgely, Robert S., A guide to the birds of Panama (rev.), 183–184
Riparia riparia, 46, 779
 Ripley, S. Dillon, A new subspecies of Island Thrush, *Turdus poliocephalus*, from New Ireland, 772–773
Rissa tridactyla, 526–543
 Robin, American, 80–85, 362, 387, 455–468, 607–608
 Rogers, David T., Jr., Impoundment of the Tombigbee River and bird distribution, 149
Rostrhamus sociabilis, 293–303, 365–367, 4DD, 9–10DD
 Rothstein, S. I., see Fugle, G. N., and ———
 Russell, Franklin, see Line, Les, and ———
Rynchops niger, 709–717
- Sanderling, 743–758
 Sandilands, Allan P., Green Heron nesting in a Wood Duck box, 390
 Sandpiper, Common, 604
 Least, 171
 Semipalmated, 248–255, 743–758
 Spotted, 149
 Western, 743–758
 White-rumped, 363
 Sapsucker, Yellow-bellied, 613–614
Sarcoramphus papa, 242
Sayornis phoebe, 367–369
 Schmidt-Koenig, K., and W. T. Keeton, Sun compass utilization by pigeons wearing frosted contact lenses, 143–145
 Schwartz, Paul, Some clarifications about *Ramphastos "aurantiostriis"*, 775–777
Sclerurus mexicanus, 242
 Scott, D. A., H. M. Hamadani, and A. Adhami Mirhosseyni (eds.), The birds of Iran (rev.), 180–181
 Scott, D. M., Cowbird parasitism on the Gray Catbird at London, Ontario, 18–27
Seiurus aurocapillus, 142, 145–146, 320–330; 380–383
S. noveboracensis, 320–330
Selasphorus platycercus, 393–395
S. rufus, 157–158
Selenidera spectabilis, 242
Setophaga ruticilla, 320–330, 373–374, 380–383
 Shearwater, Greater, 163–164
 Pink-footed, 526–543
 Short-tailed, 4, 526–543
 Sooty, 3–4, 10, 526–543
 Shields, William M., The effect of time of day on avian census results, 380–383; see Grubb, Thomas C., and ———
 Short, Lester L., reviews by, 615–617
 Shrike, Loggerhead, 28–35, 391–392
 Northern, 156
Sialia sialis, 387
Sicalis flaveola, 48
 Simon, David, see Hilty, Steven L., and ———
Sipia rosenbergi, 45
Sirystes sibilator, 242
 Siskin, Yellow-bellied, 48

- Sitta canadensis*, 455-468
S. carolinensis, 380-383, 455-468
 Skimmer, Black, 709-717
 Skua, Brown, 417-429
 Chilean, 417-429
 Falkland, 417-429
 Great, 417-429
 South Polar, 417-429
 Tristan, 417-429
 Skutch, Alexander F., Parent birds and their young (rev.), 619-621
 Skylark, 646-651
 Slobodchikoff, C. N. (ed.), Concepts of species (rev.), 801-803
 Slud, Paul, Geographic and climatic relationships of avifaunas with special reference to comparative distribution in the neotropics (rev.), 402-403
 Smith, Douglas G., The role of the sternotrachealis muscles in bird song production, 152-155
 Smith, E. L., see Johnson, R. R., et al.
 Snipe, Giant, 357
 Snow, Barbara K., Territorial behavior and courtship of the male Three-wattled Bellbird, 623-645
 Snow, David W., The web of adaptation, bird studies in the American tropics (rev.), 618
 Solitaire, Andean, 48
 Black, 46
Somateria mollissima, 759-771
 Song, see vocalizations
 Southern, William E., Colony selection and colony site tenacity in Ring-billed Gulls at a stable colony, 469-478
 Sparling, Jr., Donald W., Sounds of Laysan and Black-footed Albatrosses, 256-269
 Sparrow, Brewer's, 362
 Cape Sable Seaside, 16DD
 Chipping, 362, 779
 Dusky Seaside, 4DD, 15DD
 Field, 308-319, 455-468
 Grasshopper, 591
 House, 358-359, 377-380
 Lark, 779
 Lincoln's, 362, 320-330
 Savannah, 362
 Song, 19-21, 152-155, 455-468, 701-708
 White-crowned, 169-171, 320-330, 677-688
 White-throated, 152-155, 320-330
 Spencer, Jr., Howard E., American Wigeon breeding in Maine, 790
Spheniscus demersus, 586-587
Sphyrapicus varius, 613-614
Spilornis cheela, 293-303
Spinus tristis, 455-468
S. xanthogaster, 48
Spiza americana, 387, 591
Spizaetus ornatus, 242, 293-303
S. tyrannus, 242
Spizastur melanoleucus, 293-303
Spizella breweri, 362
S. passerina, 362, 779
S. pusilla, 308-319, 455-468
 Starling, 167-168, 350-356, 455-468
 Steffen, James F., Cannibalism in adult nesting Red-tailed Hawks, 593-594
Stephanoaetus coronatus, 293-303
Stercorarius longicaudus, 443-445
S. parasiticus, 389-390
S. pomarinus, 526-543
Sterna albifrons, 4DD, 12DD
S. fuscata, 72-79
S. hirundo, 390-391
S. maxima, 36-43
 Stilt, Hawaiian, 4DD, 17DD
 Stobo, W. T., and I. A. McLaren, The Ipswich Sparrow (rev.), 401
 Stoddart, L. Charles, see Balph, Martha Hatch, et al.
 Storm Petrel, Fork-tailed, 385-386
 Stout, John F., see Hayward, Jr., James L., et al.
Streptopelia risoria, 736-742
Sturnella magna, 387, 591-593
Sturnus vulgaris, 167-168, 350-356, 455-468
 Surveys and censuses, techniques of, 380-383, 455-468, 606-607
 Sutton, George Miksch, Portraits of Mexican birds, fifty selected paintings (rev.), 401-402
 Swallow, Bank, 46, 779
 Barn, 149-150, 596, 779-780
 Cliff, 718-725
 Tree, 779
 Violet-green, 779
 Swift, Asian Needle-tailed, 389
 Chimney, 385
 Lesser Swallow-tailed, 45
Tachycineta thalassina, 779
Tachyphonus luctuosus, 242
 Tanager, Azure-rumped, 605-606
 Fawn-breasted, 47
 Golden-chested, 47
 Gray-and-gold, 605-606
 Hepatic, 594-596
 Scarlet, 380-383
 Scrub, 47
 Western, 779
 Yellow-green Bush, 47-48
Tangara cabanisi, 605-606
T. gyrola, 242
T. inornata, 242
T. palmeri, 605-606
T. vitriolina, 47
 Tattler, Gray-rumped, 604
 Wandering, 222-230
 Taxonomy and systematics, 302, 772-773, 775-777

- Taxonomy and paleontology, recent literature on, 27A-28A, 26B, 14C-16C
- Terathopius ecaudatus*, 293-303
- Terborgh, John W., see Fitzpatrick, John W., et al.
- Terenotriccus erythrurus*, 46
- Terenura collinota*, 48
- Tern, Common, 390-391
- Least, 4DD, 12DD
- Royal, 36-43
- Sooty, 72-79
- Territory in, *Icteria virens*, 107-113
- Icterus cucullatus*, 594-595
- I. galbula*, 594-595
- Lampornis clemenciae*, 448-454
- Melospiza melodia*, 701-708
- Piranga flava*, 594-595
- Procnias tricarunculata*, 623-645
- Sterna maxima*, 36-43
- Thryomanes bewickii*, 701-708
- Thielcke, Gerhard A., Bird sounds (rev.), 797-798
- Thompson, Charles Jr., Experimental removal and replacement of territorial male Yellow-breasted Chats, 107-113
- Thrasher, Brown, 387, 455-468, 783-785
- Thraupis episcopus*, 242
- T. palmarum*, 242
- Threnetes ruckeri*, 242
- Thrush, Glossy-back, 48
- Gray-cheeked, 320-330
- Hermit, 362
- Island, 772
- Large Kauai, 4DD
- Molokai, 4DD
- Pale-eyed, 48
- Small Kauai, 4DD
- Swainson's, 320-330
- Wood, 380-383, 455-468
- Thryomanes bewickii*, 701-708
- Thryothorus fasciatoventris*, 46
- T. ludovicianus*, 387
- Titmouse, Tufted, 380-383
- Tityra semifasciata*, 242
- Todirostrum maculatum*, 363
- T. nicriceps*, 46
- Tody-Flycatcher, Black-headed, 46
- Spotted, 363
- Tomko, D. S., see Johnson, R. R., et al.
- Toucan, Collared Araçari, 774-775
- Touit dilectissima*, 45
- Towhee, Green-tailed, 779-780
- Rufous-sided, 380-383, 455-468, 779-780
- Toxic Chemicals, effect on, *Falco rusticolus*, 442-447
- Lanius ludovicianus*, 28-35
- Parabuteo unicinctus*, 587-588
- Toxostoma rufum*, 387, 455-468, 783-785
- Trautman, Milton B., In memoriam: Margaret Morse Nice, 430-441
- Tringa flavipes*, 743-758
- T. melanoleuca*, 743-758
- Troglodytes aedon*, 380-383, 455-468
- Trogon violaceus*, 242
- Tuftedcheek, Buffy, 45
- Turdus migratorius*, 80-85, 362, 387, 443, 455-468, 607-608
- T. poliocephalus beehleri***, subsp. nov., 772
- T. serranus*, 48
- Turkey, 159
- Turnstone, Ruddy, 222-230, 743-758
- Tympanuchus cupido atwatteri*, 3DD, 4DD
- Tyranniscus villisura*, 242
- Tyto alba*, 584
- Upupa epops*, 601
- Uria aalge*, 526-543
- Urosticte benjamini*, 48
- Urotiorchis macrourus*, 293-303
- Utah, 778-781
- Van Riper, III, Charles, The use of sheep wool in nest construction by Hawaiian birds, 646-651
- VanTyne, J., and A. J. Berger, Fundamentals of ornithology (rev.), 396-399
- Veery, 320-330
- Verbeek, Nicholas A. M., Interactions between Herring and Lesser Black-backed Gulls feeding on refuse, 726-735
- Vermivora celata*, 779
- V. chrysoptera*, 588-590
- V. pinus*, 588-590
- V. virginiae*, 779
- Vestaria coccinea*, 331-342
- Vireo flavifrons*, 387
- V. flavoviridis*, 97-106
- V. gilvus*, 320-330, 779
- V. griseus*, 320-330, 387
- V. olivaceus*, 19-21, 320-330, 380-383
- V. philadelphicus*, 320-330
- V. solitarius*, 320-330
- Vireo, Philadelphia, 320-330
- Red-eyed, 19-21, 320-330, 380-383
- Solitary, 320-330
- Warbling, 320-330, 779
- White-eyed, 320-330, 387
- Yellow-green, 97-106
- Yellow-throated, 387
- Vocalizations, audiospectrograms of, 6-7, 151, 153-154, 156, 199, 257, 259, 261, 568-571, 630-631, 783
- Agelaius phoeniceus*, 152-155
- Aix sponsa*, 567-572
- Batrachostomus javensis*, 150-152
- Campephilus guatemalensis*, 773
- Columba livia*, 152-155
- Diomedea immutabilis*, 256-269
- D. nigripes*, 256-269
- Henicorhina leucoptera* sp. nov., 198-200
- Melanerpes erythrocephalus*, 232

- Melospiza melodia*, 152-155, 701-708
Parus atricapillus, 156-157
Procnias tricarunculata, 629-633, 642-644
Pterodroma inexpectata, 6-10
Thryomanes bewickii, 701-708
Toxostoma rufum, 783-784
Xenoglaux loweryi sp. nov., 413-414
Zonotrichia albicollis, 152-155
 Vuilleumier, François, reviews by, 178-180, 180-181, 801-804
 Vulture, Black, 149, 392
 Turkey, 584

 Walker, Wayman, Chlorinated hydrocarbon pollutants in Alaskan Gyrfalcons and their prey, 442-447
 Wallace, G. J. and H. D. Mahan, An introduction to ornithology (rev.), 396-399
 Waller, David W., see Myers, Gerald R., and —
 Warbler, Audubon's 779
 Black and White, 320-330, 380-383
 Blackpoll, 47, 320-330
 Blue-winged, 588-590
 Golden-winged, 588-590
 Kentucky, 387
 Kirtland's, 4DD, 14DD
 MacGillivray's 779
 Magnolia, 320-330
 Orange-crowned, 779
 Pine, 387
 Prairie, 387, 393
 Prothonotary, 387
 Swainson's, 387
 Virginia's, 779
 Wilson's, 320-330
 Yellow-rumped, 320-330, 362
 Warham, John, Bruce R. Keeley, and Graham J. Wilson, Breeding of the Mottled Petrel, 1-17
 Waser, Nickolas M., and David W. Inouye, Implications of recaptures of Broad-tailed Hummingbirds banded in Colorado, 393-395
 Washington, 375
 Waterthrush, Northern, 320-330
 Watson, George E., Proceedings of the ninety-fourth stated meeting of the American Ornithologists' Union, 123-139
 Waxwing, Cedar, 455-468
 Weaver, Grey-capped, 50-63
 Sociable, 50-63
 White-browed Sparrow, 50-63
 Weather, influence on, *Anthus spinoletta*, 362
 Catharus guttatus, 362
 Contopus sordidulus, 362
 Dendroica coronata, 362
 Diomedea immutabilis, 272-273
 Empidonax oberholseri, 362
 E. traillii, 362
 Junco caniceps, 362
 Melospiza lincolni, 362
 Pandion haliaetus, 146-149, 212-213
 Passerculus sandwichensis, 362
 Spizella breweri, 362
 S. passerina, 362
 spring migrants, 778-781
 Turdus migratorius, 362
 Webster, Michael, A new guide to the birds of Hong Kong (rev.), 801
 Weeks, Jr., Harmon P., Abnormal nest building in the Eastern Phoebe, 367-369
 Weights and measurements of, *Accipiter gentilis*, 655
 Aix galericulata, 608-612
 Carpodacus mexicanus, 779
 Cerorhinca monocerata, 541
 Chen caerulescens, 278-281
 Chlorura chlorura, 779
 Chondestes grammacus, 779
 Cistothorus platensis, 361
 Contopus sordidulus, 779
 Dendroica coronata, 779
 D. petechia, 779
 Diomedea nigripes, 541
 Empidonax oberholseri, 779
 Eudocimus alba, 164-167
 Fulmarus glacialis, 541
 Gavia arctica, 541
 Henicorhina leucoptera, 196
 Hirundo rustica, 779-780
 Hypocnemis cantator, 284-286
 Iridoprocne bicolor, 779-780
 Junco caniceps, 779
 Larus californicus, 541
 L. canus, 541
 L. glaucescens, 541
 L. heermanni, 541
 L. occidentalis, 541
 L. philadelphia, 541
 Myiarchus cinerascens, 779
 Myrmotherula axillaris, 284-286
 M. brachyura, 284-286
 M. erythrura, 284-286
 M. hallowelli, 284-286
 M. menetriesii, 284-286
 M. ornata, 284-286
 Oporornis tolmiei, 779
 Passerina amoena, 779
 Petrochelidon pyrrhonota, 779
 Phalacrocorax penicillatus, 541
 Pheucticus melanocephalus, 779
 Pipilo erythrophthalmus, 779
 Piranga ludoviciana, 779
 Pterodroma inexpectata, 4
 Ptychoramphus aleutica, 541
 Puffinus creatopus, 541
 P. griseus, 541
 P. tenuirostris, 541
 Riparia riparia, 779
 Rissa tridactyla, 541

- Rynchops niger*, 713
Seiurus aurocapillus, 142
Spizella passerina, 779
S. pusilla, 316-317
Sterna fuscata, 72-76
Sturnus vulgaris, 167-168
Tachycineta thalassina, 779
Uria aalge, 541
Vermivora celata, 779
V. virginiae, 779
Vireo gilvus, 779
Zonotrichia leucophrys, 677-688
Weller, Milton W., reviews by, 173-177, 618-619
Welty, J. C., *The life of birds* (rev.), 396-399
Whimbrel, 222-230
White, Clayton M., and William M. Baird, First North American record of the Asian Needle-tailed Swift, *Hirundapus caudacutus*, 389
White-eye, Japanese, 646-651
Whitetip, 48
Whitemore, Robert C., James A. Mosher, and Herbert H. Frost, Spring migrant mortality during unseasonable weather, 778-781
Whittow, G. Causey, see MacMillen, Richard E., et al.
Wiens, John A., reviews by, 177-178, 792-794
Wigeon, American, 790
Willard, David E., see Fitzpatrick, John W., et al.
Willet, 743-758
Wilsonia pusilla, 320-330
Winkler, Hans, review by, 400-401
Wisconsin, 489-493
Withers, Philip C., Energetic aspects of reproduction by the Cliff Swallow, 718-725
Witkin, Steve R., see Ficken, Millicent S., and —
Wood-Wren, Bar-winged, 195-201
Woodcock, American, 489-493
Woodpecker, Downy, 369-370, 380-383, 455-468
Hairy, 369-370, 380-383
Pale-billed, 773-775
Pileated, 369-370
Red-bellied, 455-468
Red-cockaded, 160-163, 376-377, 12DD-14DD
Red-headed, 231-239
Wren, Bewick's, 701-708
Black-bellied, 46
Carolina, 387
Gray-barred, 594-596
Gray-mantled, 46
House, 380-383, 455-468
Short-billed Marsh, 359-362
Wyoming, 65-71
Wystrach, V. P., Survival of a Blue Jay with a malformed bill, 781-782
Xenoglaux loweryi sp. nov., 409-416
Xiphorhynchus guttatus, 242
Yamashina, Yoshimaro (ed.), *Save these birds* (rev.), 404
Yeatman, Laurent, *Atlas des oiseaux nicheurs de France* (rev.), 803-804
Yellowlegs, Greater, 743-758
Lesser, 743-758
Yellowthroat, Common, 320-330, 455-468
Yunick, R. P., A Caribbean Barn Swallow recovery, 149-150
Zaccagnini, Ronald, see McCallum, D. Archibald, et al.
Zach, Reto and J. Bruce Falls, Ejection of pellets by captive Ovenbirds, 145-146
Zarhynchus wagleri, 242
Zenaida macoura, 158, 350-356, 455-468
Zink, Robert M., Winter observations of Brown Pelicans in Veracruz, Mexico, 588
Zipko, Stephen J., and John Kennington, A ground-nesting Wood Duck, 159
Zonotrichia albicollis, 152-155, 320-330
Z. leucophrys, 169-171, 320-330, 677-688
Zosterops japonica, 646-651