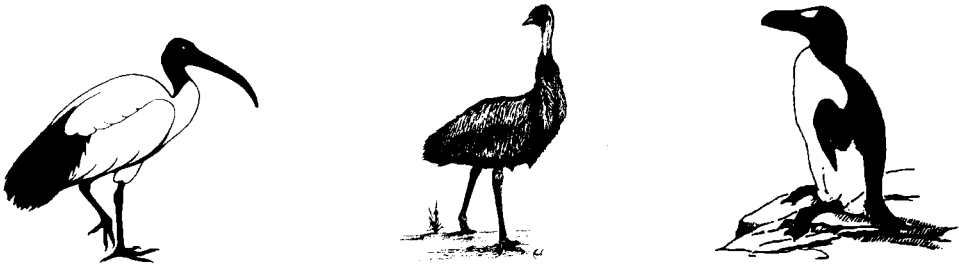


RECENT ORNITHOLOGICAL LITERATURE, No. 74

Supplement to: *The Auk*, Vol. 114, No. 4, October 1997¹
The Ibis, Vol. 139, No. 4, October 1997²



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CONTENTS

New Journals	2	General Biology.....	41
Discontinued Journal.....	2	General.....	41
Behavior and Vocalizations	2	Afrotropical	41
Conservation.....	6	Antarctic and Subantarctic	42
Diseases, Parasites, & Pathology.....	12	Australasia and Oceania.....	42
Distribution.....	13	Europe.....	44
General.....	13	Indomalayan.....	47
Afrotropical	13	Nearctic.....	47
Australasia and Oceania.....	14	Neotropical	50
Europe.....	15	North Africa & Middle East.....	50
Indomalayan.....	17	Northern Asia & Far East	51
Nearctic.....	17	Histories, Bibliographies, and Catalogs.....	51
Neotropical	21	Identification.....	51
North Africa & Middle East.....	21	Migration and Orientation.....	52
Northern Asia & Far East	22	Morphology, Physiology, Molt, Development	55
Ecology and Populations.....	22	Paleontology, Zooarchaeology, Ethnobiology	58
Evolution, Systematics, Genetics, & Hybrids.....	32	Pesticides and Pollution.....	59
Feeding Behavior, Diet, & Predators.....	35	Miscellaneous.....	59
Gamebird and Pest Management.....	40		

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NEW JOURNALS

Bulletin de l'Association pour la Sauvegarde des puffins des îles de Marseille. Subscription and single issue purchases A.S.P.I.M., Appt. 28, îles du Frioul, F-13001 Marseille, France.—Contains papers, in French, on *Calonectris diomedea* and other vertebrates seen on the islands off Marseille.—G.O.

The Korean Journal of Ornithology. Published by the Ornithological Society of Korea. ISSN 1225-9179. Subscriptions and membership: Korean Inst. Ornithol., Kyung-Hee Univ., Seoul 130-701, Republic of Korea. Send manuscripts to: Dr. Jeong-Chil Yoo, Dept. Biol., Kyung-Hee Univ., Seoul 130-701, Republic of Korea.—First issue (volume 1), published in December 1994, contains 11 refereed papers on field-oriented aspects of ornithology in Ko-

rea. Papers on any aspects of avian biology, including theoretical aspects of specific topics will be considered. Published in either Korean or English.—J.V.B.

Le Schoeniclus. Twice/year. Subscription: Paul Koenig, BP 53, F-67470 Munchhausen, France.—Papers on bird ringing, in French.—G.O.

DISCONTINUED JOURNAL

Musk-Ox. Multidisciplinary journal dedicated to Arctic research published by University of Alberta ceased publication with completion of vol. 40 (1992).—G.S.

BEHAVIOR AND VOCALIZATIONS

AGOSTINI, N., D. M. BIRD, & J. J. NEGRO. 1996. **Social behavior of captive fledgling American Kestrels**

- (*Falco sparverius*). *J. Raptor Res.* 30: 240–241. (Via Carlo Alberto n.4, 89046 Marina di Gioiosa Jonica (RC), Italy.)—Data from 3 families, each with 4 fledglings.—J.P.S.
- AUBIN, T., & N. MATHEVON. 1995. **Adaptation to severe conditions of propagation: long-distance distress calls and courtship calls of a colonial seabird.** *Bioacoustics* 6: 153–161. (C.N.R.S. UA 1491 NAM, Lab. des mécanismes de la communication, Univ. Paris XI-Orsay, F-91400 France.)—*Aptenodytes forsteri*.
- BADYADEV, A. V., & E. S. LEAF. 1997. **Habitat associations of song characteristics in *Phylloscopus* and *Hippolais* warblers.** *Auk* 114: 40–46. (Div. Biol. Sci., Univ. Montana, Missoula, MT 59812, USA.)—Temporal characteristics of song vary strongly with habitat openness, whereas frequency attributes largely are unaffected by habitat structure.—H.A.W.
- BAKER, M. C., T. T. TRACY, & L. E. MIYASATO. 1996. **Gargle vocalizations of Black-capped Chickadees: test of repertoire and video stimuli.** *Anim. Behav.* 52: 1171–1175. (Biol. Dept., Colorado State Univ., Fort Collins, CO 80523, USA.)—*Parus atricapillus*.
- BAKER, M. C. 1996. **Depauperate meme pool of vocal signals in an island population of Singing Honeyeaters.** *Anim. Behav.* 51: 853–858. (Dept. Biol., Colorado State Univ., Fort Collins, CO 80523, USA.)—*Meliphaga virescens*.
- BALLINTJN, M. R., & C. TEN CATE. 1997. **Sex differences in the vocalizations and syrinx of the Collared Dove (*Streptopelia decaocto*).** *Auk* 114: 22–39. (Sec. Ethol., Inst. Evol. Ecol. Sci., Leiden Univ., P.O. Box 9516, 2300 RA Leiden, Netherlands.)—Morphological differences of syrinx contribute to sexual differences in vocalizations.—M.W.
- BEDNEKOFF, P. A., & R. P. BALDA. 1996. **Observational spatial memory in Clark's Nutcrackers and Mexican Jays.** *Anim. Behav.* 52: 833–839. (Dept. Life Sci., Indiana State Univ., Terre Haute, IN 47809, USA.)—*Nucifraga columbiana* and *Aphelocoma ultramarina*.
- BEECHER, M. D., ET AL. 1996. **Repertoire matching between neighbouring Song Sparrows.** *Anim. Behav.* 51: 917–923. (Dept. Psychol., Univ. Washington, Box 351525, Seattle, WA 98195, USA.)—*Melospiza melodia*.
- BELL, B. D., ET AL. 1997. **Settlement, breeding success and song repertoires of monogamous and polygynous Sedge Warblers (*Acrocephalus schoenobaenus*).** *Vogelwarte* 39: 87–94. (Sch. Biol. Sci., Victoria Univ. Wellington, P.O. Box 600, Wellington, New Zealand.)—Breeding success and song repertoire greater in polygynous than monogamous males.—K.-M.E.
- BOHNER, J., & D. TODT. 1996. **Influence of auditory stimulation on the development of syntactical and temporal features in European Starling song.** *Auk* 113: 450–456. (Inst. Behav. Biol., Free Univ. Berlin, Haderslebener Str. 9, D-12163, Berlin, Germany.)—*Sturnus vulgaris*.
- BORGIA, G. 1996. **Satin Bowerbird displays are not extremely costly.** *Anim. Behav.* 52: 648–650. (Dept. Zool., Univ. Maryland, College Park, MD 20742, USA.)—Reply to a critique by B. C. Sheldon, *Anim. Behav.* 52: 645–647.
- BROOKE, M. DE. L. 1996. **The calls of Murphy's Petrel (*Pterodroma ultima*).** *Notornis* 43: 50–52. (Dept. Zool., Univ. Cambridge, Downing St., Cambridge CB2 3EJ, UK.)—Describes calls from the Pitcairn Islands and includes sonograms. These calls differ from those from French Polynesia, suggesting limited dispersal between colonies and the possibility of genetic differentiation.—E.O.M.
- BRUA, R. B., G. L. NUECHTERLEIN, & D. BUITRON. 1996. **Vocal response of Eared Grebe embryos to egg cooling and egg turning.** *Auk* 113: 525–533. (Dept. Zool., North Dakota State Univ., Fargo, ND 58105, USA.)—Egg cooling experiments in *Podiceps nigricollis* support care-soliciting signal hypothesis.—C.A.H.
- BRUNNER, D., A. KACELNIK, & J. GIBBON. 1996. **Memory for inter-reinforcement interval variability and patch departure decisions in the Starling, *Sturnus vulgaris*.** *Anim. Behav.* 51: 1025–1045. (NY State Psychiatric Inst., Unit 50, 722 W. 168th St., New York, NY 10032, USA.)
- BUNIN, J. S. 1995. **Preliminary observations of behavioural interactions between Takahe (*Porphyrio mantelli*) and Pukeko (*P. porphyrio*) on Mana Island [New Zealand].** *Notornis* 42: 140–143. (Zool. Dept., Univ. Otago, P.O. Box 56, Dunedin, NZ.)—Describes 5 brief conflicts and other interactions.—E.O.M.
- BUSTAMANTE, J., & F. HIRALDO. 1993. **The function of aggressive chases by breeding Black and Red Kites *Milvus migrans* and *Milvus milvus* during the post-fledging dependence period.** *Ibis* 135: 139–147. (Estación Biol. de Doñana CSIC, Avda. Maria Luisa, Pabellón del Perú, E-41013 Sevilla, Spain.)—Mostly function as anti-predator behavior.—J.V.B.
- BYERS, B. E. 1996. **Geographic variation of song form within and among Chestnut-sided Warbler populations.** *Auk* 113: 288–299. (Dept. Biol., Univ. Massachusetts, Amherst, MA 01003, USA.)—2 distinct song forms are suggested to serve different communication functions in *Dendroica pensylvanica*.—M.L.F.
- BYERS, B. E. 1996. **Messages encoded in the songs of Chestnut-sided Warblers.** *Anim. Behav.* 52: 691–705. (Dept. Biol., Univ. Massachusetts, Amherst, MA 01003, USA.)—*Dendroica pensylvanica*.
- CARABONE, C. A. 1996. **Do feeding sites affect the date of song cessation by breeding birds? Connecticut Warbler** 16: 158–162. (Dept. Ecol. Evol. Biol., Univ. Connecticut, Storrs, CT 06268, USA.)—Maybe.—R.B.C.

- CATCHPOLE, C. K., & J. KOMDEUR. 1993. **The song of the Seychelles Warbler *Acrocephalus sechellensis*, an island endemic.** *Ibis* 135: 190–195. (Dept. Biol., Royal Holloway & Bedford New Coll., Univ. London, Egham, Surrey TW20 0EX, UK.)
- COLLINS, S. A., & C. TEN CATE. 1996. **Does beak colour affect female preference in Zebra Finches?** *Anim. Behav.* 52: 105–112. (Inst. Evol. Ecol. Sci., Univ. Leiden, P.O. Box 9516, 2300 RA Leiden, The Netherlands.)—Review of conflicting studies of *Taeniopygia guttata* suggests display rate more important and a female's choice of male may depend on her experience of males during maturation.—A.K.T.
- COURTNEY, J. 1997. **The juvenile food-begging calls and related behaviour in the Australian 'Rose-tailed' Parrots *Alisterus, Aprosmictus* and *Polytelis*; and a comparison with the Eclectus Parrot *Eclectus roratus* and Pesquet's Parrot *Psittichas fulgidus*.** *Aust. Bird Watcher* 17: 42–59. ('Ashgrove', Swan Vale via Glen Innes, NSW 2370, Australia.)—Describes calls and explores taxonomic possibilities from comparisons.—I.D.E.
- CRUICKSHANK, A. J., J.-P. GAUTIER, & C. CHAPPUIS. 1993. **Vocal mimicry in wild African Grey Parrots *Psittacus erithacus*.** *Ibis* 135: 293–299. (Stn. Biol. (URA 373), F-35380 Paimpont, France.)—Common in wild birds as well as captive individuals.—J.V.B.
- D'EATH, R. B., & M. S. DAWKINS. 1996. **Laying hens do not discriminate between video images of conspecifics.** *Anim. Behav.* 52: 903–912. (Dept. Zool., S. Parks. Rd., Oxford OX1 3PS, UK.)—*Gallus gallus domesticus*.
- DAVIES, N. B., ET AL. 1996. **Female control of copulations to maximize male help: a comparison of polygynandrous Alpine Accentors, *Prunella colularis*, and Dunnocks, *Prunella modularis*.** *Anim. Behav.* 51: 27–47. (Dept. Zool., Downing St., Cambridge CB2 3EJ, UK.)
- EENS, M., & R. PINXTEN. 1996. **Female European Starlings increase their copulation solicitation rate when faced with the risk of polygyny.** *Anim. Behav.* 51: 1141–1147. (Dept. Biol., Univ. Antwerp, B-2610 Wilrijk, Belgium.)—*Sturnus vulgaris*.
- ESPMARK, Y. 1995. **Individual and local variations in the song of the Snow Bunting (*Plectrophenax nivalis*) on Spitsbergen.** *Bioacoustics* 6: 117–133. (Dept. Zool., Univ. Trondheim, N-7055 Dragvoll, Norway.)
- FICKEN, M. S., & J. POPP. 1996. **A comparative analysis of passerine mobbing calls.** *Auk* 113: 370–380. (Dept. Biol. Sci., Univ. Wisconsin-Milwaukee, Milwaukee, WI 53201, USA.)—Acoustic structures indicate phylogenetic patterns and possible convergence in interspecific flocks.—A.D.A.
- FOX, A. D., & C. MITCHELL. 1997. **Rafting behaviour and predator disturbance to Steller's Eiders *Polycticta stelleri* in northern Norway.** *J. Ornithol.* 138: 103–109. (Dept. Wildl. Ecol., Natl. Environ. Res. Inst., Kal, Grenaavej 12, DK-8410 Ronde, Denmark.)
- GALEOTTI, P., & G. PAVAN. 1993. **Differential responses of territorial Tawny Owls *Strix aluco* to the hooting of neighbours and strangers.** *Ibis* 135: 300–304. (Dipto. di Biol. Anim., Univ. di Pavia, Piazza Botta 9, I-27100 Pavia, Italy.)—Responses stronger to strangers.—J.V.B.
- GETTY, T. 1996. **Mate selection by repeated inspection: more on Pied Flycatchers.** *Anim. Behav.* 51: 739–745. (Kellogg Biol. Stn., Michigan State Univ., Hickory Corners, MI 49060, USA.)—Signal detection theory used to assess search costs, search tactics and discrimination errors in *Ficedula hypoleuca*.—A.K.T.
- GRAY, D. A., & J. C. HAGELIN. 1996. **Song repertoires and sensory exploitation: reconsidering the case of the Common Grackle.** *Anim. Behav.* 52: 795–800. (Dept. Biol., Univ. New Mexico, Albuquerque, NM 87131, USA.)—*Quiscalus quiscula*.
- GREEN, K. 1997. **Biology of the Heard Island Shag *Phalacrocorax nivalis*. 1. Breeding behaviour.** *Emu* 97: 60–66. (NPWS, Snowy Mountains Region, P.O. Box 2228, Jindabyne, NSW 2627, Australia.)—Virtually identical to that of *Phalacrocorax atriceps* grouping despite geographical isolation.—S.R.P.
- GUTZWILLER, K. J., ET AL. 1997. **Does human intrusion alter the seasonal timing of avian song during breeding periods?** *Auk* 114: 55–65. (Dept. Biol., Baylor Univ., Waco, TX 76798, USA.)—No effect of 1–5 hr/wk intrusions on *Regulus calendula*, *Dendroica coronata*, *Junco hyemalis*.—A.D.A.
- HAILMAN, J. P. 1994. **Constrained permutation in "chick-a-dee"-like calls of a Black-lored Tit *Parus xanthogenus*.** *Bioacoustics* 6: 33–50. (Dept. Zool., Univ. Wisconsin, Madison, WI 53706, USA.)
- HANSEN, P. 1994. **Recent bioacoustic publications (mainly 1993). Part II. Passerine birds to general.** *Bioacoustics* 6: 51–68. (Nat. Hist. Mus., Univ., Bygning 210, DK-8000, Aarhus C, Denmark.)
- HODGON, J. 1996. **Behaviour and diet of the Barking Owl *Ninox connivens* in South-eastern Queensland [Australia].** *Aust. Bird Watcher* 16: 332–338. (Qld. Dept. Environ., P.O. Box 1735, Bundaberg, Qld. 4670, Australia.)—Calling, mating and foraging behaviour.—I.D.E.
- JANOWSKI, J. P., & B. J. LANTZ. 1996. **Listening for Bicknell's Thrush.** *Delmarva Ornithol.* 28: 21–24. (122 Pine Valley Dr., Middletown, DE 19709, USA.)—Description of vocalizations of *Catharus bicknelli* indicating their importance in field identification.—R.B.C.
- KLEINDORFER, S, H. HOI*, & B. FESSL. 1996. **Alarm calls and chick reactions in the Moustached Warbler, *Acrocephalus melanopogon*.** *Anim. Behav.* 51: 1199–1206. (KLIVV, Savoyenstrasse 1a, A-1160 Vienna, Austria.)
- LEONARD, M. L., & P. J. WEATHERHEAD. 1996. **Dominance rank and offspring sex ratios in domestic**

- fowl. *Anim. Behav.* 51: 725–731. (Dept. Biol., Dalhousie Univ., Halifax, NS B3H 4J1, Can.)—*Gallus gallus domesticus*.
- LEVIN, R. N. 1996. **Song behaviour and reproductive strategies in a duetting wren, *Thryothorus nigricapillus*: I. Removal experiments. II. Playback experiments.** *Anim. Behav.* 52: 1093–1106, 1107–1117. (Dept. Biol., Pomona Coll., Claremont, CA 91711, USA.)
- LIND, H., T. DABELSTEEN*, & P. K. MCGREGOR. 1996. **Female Great Tits can identify mates by song.** *Anim. Behav.* 52: 667–671. (Dept. Popul. Biol., Zool. Inst., Univ. Copenhagen, Tagensvej 16, DK-2200 Copenhagen N, Denmark.)—*Parus major*.
- MAY, L. 1994. **Individually distinctive corncrake *Crex crex* calls: a pilot study.** *Bioacoustics* 6: 25–32. (Dept. Biol. Sci., Manchester Metropolitan Univ., Chester St., Manchester, M1 5GD, UK.)
- MCCARTY, J. P. 1997. **The role of energetic costs in the evolution of begging behavior of nestling passerines.** *Auk* 114: 135–137. (Sec. Ecol. Syst., Cornell Univ., Ithaca, NY 14853, USA.)—A reply to Verhulst and Wiersma (*Auk* 114: 134).—M.W.
- NEGRO, J. J., ET AL. 1996. **Captive fledgling American Kestrels prefer to play with objects resembling natural prey.** *Anim. Behav.* 52: 707–714. (Estación Biol. de Doñana (CSIC), Apdo. 1056, 41080 Sevilla, Spain.)—*Falco sparverius*.
- NELSON, D. A., C. WHALING, & P. MARLER. 1996. **The capacity for song memorization varies in populations of the same species.** *Anim. Behav.* 52: 379–387. (Borror Lab. Bioacoustics, Dept. Zool., 1735 Neil Ave., Ohio State Univ., Columbus, OH 43210-1293, USA.)—Migratory population of *Zonotrichia leucophrys oriantha* memorized more songs during sensitive period than sedentary race *nuttalli*.—A.K.T.
- NELSON, D. A., ET AL. 1996. **Overproduction in song development: an evolutionary correlate with migration.** *Anim. Behav.* 51: 1127–1140. (Borror Lab. Bioacoustics, Dept. Zool., Ohio State Univ., Columbus, OH 43210-1293, USA.)—Song development more similar in two migratory taxa, *Zonotrichia leucophrys pugetensis* and *Zonotrichia leucophrys oriantha*, than in sister taxa *pugetensis* and sedentary *nuttalli*.—A.K.T.
- NICOL, C. J., & S. J. POPE. 1996. **The maternal feeding display of domestic hens is sensitive to perceived chick error.** *Anim. Behav.* 52: 767–774. (Dept. Clin. Vet. Sci., Univ. Bristol, Langford Ho., Langford, Avon BS25 1BS, UK.)—*Gallus gallus domesticus*.
- NOL, E., K. CHENG, & C. NICHOLS. 1996. **Heritability and phenotypic correlations of behaviour and dominance rank of Japanese quail.** *Anim. Behav.* 52: 813–820. (Dept. Biol., Trent Univ., Peterborough, ON K9J 7B8, Can.)—Dominance is highly heritable in juvenile and adult female, but not adult male, *Coturnix japonica*.—A.K.T.
- PAEK, W.-K., & K.-H. HAHM. 1994. **[A study on the song of the Great Tit, *Parus major* in Korea.]** *Kor. J. Ornithol.* 1: 25–33. (Dept. Nat. Hist., Natl. Sci. Mus., Seoul, Korea.)—Comparison of two populations. (Korean, Engl. summ.)—J.V.B.
- PODOS, J. 1996. **Motor constraints on vocal development in a songbird.** *Anim. Behav.* 51: 1061–1070. (Dept. Zool., Duke Univ., Durham, NC 27708-0325, USA.)—Young Swamp Sparrows, *Melospiza georgiana*, inaccurately imitated conspecific song models with high rates of syllable repetition.—A.K.T.
- PRICE, K. 1996. **Begging as competition for food in Yellow-headed Blackbirds.** *Auk* 113: 963–967. (RR2, S-24, C-9, Burns Lake, BC V0J 1E0, Can.)—In experimentally enlarged broods of *Xanthocephalus xanthocephalus*, begging was longer, louder, and more intense. Duration change appeared to be due to competition, whereas loudness and intensity changes appeared to be due to hunger.—D.C.D.
- ROBERTSON, C. J. R. 1996. **Tui (*Prosthemadera novaeseelandiae*) mimic parakeet calls at Raoul Island [New Zealand].** *Notornis* 43: 52–53. (P.O. Box 12397, Wellington, NZ.)—Kermadec Red-crowned Parakeet *Cyanoramphus novaeseelandiae cyanurus* occurs only rarely on Raoul Island but is 3–4 km away on the Herald Islets.—E.O.M.
- ROCHE, J. P. 1996. **The use of a rock by an Osprey in an agonistic encounter.** *J. Raptor Res.* 30: 42–43. (Ctr. Integrative Study Anim. Behav., Indiana Univ., 402 N. Park Ave., Bloomington, IN 47405, USA.)—Territorial male *Haliaeetus haliaetus* drops rock on intruding male.—J.P.S.
- RODRIGUES, M. 1996. **Song activity in the Chiffchaff: territorial defence or mate guarding?** *Anim. Behav.* 51: 709–716. (EGL, Dept. Zool., S. Parks Rd., Oxford OX1 3PS, UK.)—*Phylloscopus collybita*.
- RYAN, D. A., ET AL. 1996. **Scanning and tail-flicking in the Australian Dusky Moorhen (*Gallinula teenebrosa*).** *Auk* 113: 499–501. (Dept. Zool., Univ. Melbourne, Parkville, Vic. 3052, Australia.)—Both interspecific signal of alertness and intraspecific signal of social status.—J.R.F.
- SCHOTTLER, B. 1995. **Songs of Blue Tits *Parus caeruleus palmensis* from La Palma (Canary Islands)—a test of hypotheses.** *Bioacoustics* 6: 135–152. (Inst. allg. u. spez. Zool., Univ. Giessen, Stephanstr. 24, 35390 Giessen, Germany.)—Similarity to *Parus major* song due to convergence, not character displacement. Song repertoire differences caused by drift events.—J.K.B.
- SHAHLA, Y., & H. S. A. YAHYA. 1996. **Correlates of mating success in Indian Peafowl.** *Auk* 113: 490–492. (Ctr. Wildl. Ornithol., Aligarh Muslim Univ., Aligarh, Uttar Pradesh, India.)—Positively correlated with proportion of total calls with >5 notes and length of longest fish-tail feather in *Pavo cristatus*.—H.A.W.
- SHELDON, B. C. 1996. **Are Bowerbird displays cheap?** *Anim. Behav.* 52: 645–647. (Dept. Zool., Uppsala Univ., S-752 36 Uppsala, Sweden.)—Critique of pa-

- pers by G. Borgia, 1993, *Am. Nat.* 141: 729–743, *Anim. Behav.* 49: 1291–1301.
- SIMPSON, H. B., & D. S. VICARIO*. 1996. **Male Zebra Finches can learn male-typical vocalizations from hormone-treated female tutors.** *Anim. Behav.* 52: 1119–1127. (Box 137, The Rockefeller Univ., New York, NY 10021, USA.)—*Taeniopygia guttata*.
- SMITH, W. J., & A. M. SMITH. 1996. **Information about behaviour provided by Louisiana Waterthrush, *Seiurus motacilla* (Parulinae), songs.** *Anim. Behav.* 51: 785–799. (Dept. Biol., Univ. Pennsylvania, Philadelphia, PA 19104-6018, USA.)
- STAICER, C. A. 1996. **Acoustical features of song categories of the Adelaide's Warbler (*Dendroica adelaidae*).** *Auk* 113: 771–783. (Dept. Biol., Dalhousie Univ., Halifax, NS B3H 4J1, Can.)—Type B songs lower frequency and more complex than type A.—M.E.B.
- TEBBICH, S., M. TABORSKY, & H. WINKLER. 1996. **Social manipulation causes cooperation in Keas.** *Anim. Behav.* 52: 1–10. (KLIVV, Savoyenstrasse 1a, A-1160 Vienna, Austria.)—Captive dominant *Nestor notabilis* forced subordinates to cooperate in a food finding task.—A.K.T.
- TEMRIN, H., ET AL. 1997. **Parental investment in monogamous pairs of Wood Warblers (*Phylloscopus sibilatrix*).** *J. Ornithol.* 138: 93–101. (Dept. Zool., Univ. Stockholm, S-106 91 Stockholm, Sweden.)
- VERHULST, S., & P. WIERSMA. 1997. **Is begging cheap?** *Auk* 114: 134. (Zool. Lab., P.O. Box 14, 9750 AA Haren, The Netherlands.)—A critical comment on McCarty (*Auk* 113: 178–182): studies on energetics should also consider consequences of fitness.—M.W.
- VIELLIARD, J. 1995. **Phylogeny of bioacoustic parameters in birds.** *Bioacoustics* 6: 171–174. (Arquivo Sonoro Neotropical, Unicamp, Dept. Zool., CP6109, 13083-970 Campinas, SP, Brazil.)—Round-table discussion from 1994 Int. Ornithol. Congr.—J.K.B.
- WHITESIDE, R. 1995. **Notes on the display behaviour of a fully-plumed male Blue Bird of Paradise *Paradisaea rudolphi*.** *Muruk* 7: 71–73. (VSO PNG Field Off., P.O. Box 5685, Boroko, Celebes, Indonesia.)
- WILLIAMS, J. M., & P. J. B. SLATER. 1993. **Does Chaffinch *Fringilla coelebs* song vary with the habitat in which it is sung?** *Ibis* 135: 202–208. (Sch. Biol. & Med. Sci., Univ. St. Andrews, Fife KY16 9TS, Scotland.)—No systematic relationship with features of environment.—J.V.B.
- WON-KEE, P., & K.-H. HAHM*. 1996. **Changes in the duration of Great Tit *Parus major* song in the breeding season.** *Acta Ornithol.* (Warsaw) 31: 155–159. (Environ. Res. Inst., Kyungnam Univ., 449 Woelyoung-Dong, Masan Kyungnam, 631-701, Korea.)—Singing lasts longer during courtship than at any other period in nesting cycle.—J.P.
- ZIOLKOWSKI, D. J., ET AL. 1997. **Coordination of female nest attentiveness with male song output in the cavity-nesting House Wren *Troglodytes aedon*.** *J. Avian Biol.* 28: 9–14. (L. Scott Johnson, Dept. Biol. Sci., Towson State Univ., Towson, MD 21252 USA. E-mail: johnson@midget.towson.edu)—Experimental study of effect of temporary removal of males.—R.T.B.

CONSERVATION

- ANDERSON, R. 1995. **Peregrine Falcons, aviculture, and man.** AZA Reg. Conf. Proc. 1995: 15–21. (Raptor Resource Proj., 7097 177th Ave., Hugo, MN 55038, USA.)—Captive breeding and release techniques for *Falco peregrinus* ssp.—J.C.J.
- BABBIT, G. 1995. **Seasonality and captive management of the Marabou Stork.** AZA Reg. Conf. Proc. 1995: 22–25. (Columbus Zoo, 9990 Riverside Dr., Box 400, Powell, OH 43065-0400, USA.)—*Leptotilos crumeniferus*.
- BURFORD, L. S. 1995. **Status of restoration efforts for the Peregrine Falcon (*Falco Peregrinus [sic]*) in Kentucky.** AZA Reg. Conf. Proc. 1995: 39–45. (Kentucky Dept. Fish Wildl. Resour., #1 Game Farm Rd., Frankfort, KY 40601, USA.)—Gives known mortality factors for 20 peregrines of mixed subspecies released in Lexington, KY, USA.—J.C.J.
- BARTMANN, W. 1996. **The Brazilian Merganser – nearly extinct?** TWSG News 9: 32–34. (Tierpark Dortmund, Mergelteichstraße 80, D-44225 Dortmund, Germany.)—*Mergus octosetaceus* breeding biology, habitat requirements and feeding on *Asp. tyanax fasciatus*.—F.P.
- BRAMLEY, G. N. 1996. **A small predator removal experiment to protect North Island Weka (*Gallirallus australis greyi*) and the case for single-subject approaches in determining agents of decline.** *N. Z. J. Ecol.* 20: 37–43. (Dept. Biol. Sci., Univ. Waikato, Priv. Bag 3105, Hamilton, NZ.)—Results inconclusive. Suggests alternative experimental design that may be useful for studying causes of decline.—E.O.M.
- CALHOON, K. 1995. **Field collection of native birds for the Tennessee Aquarium.** AZA Reg. Conf. Proc. 1995: 399–402. (Tennessee Aquarium, 1 Broad St., P.O. Box 11048, Chattanooga, TN 37401-2048, USA.)—Avian collection protocol for zoos in conservation efforts.—J.C.J.
- COSTA, R., & E. KENNEDY. 1994. **Red-cockaded Woodpecker translocations 1989–1994: state-of-our-knowledge.** AZA Annu. Conf. Proc. 1994: 74–81. (No address available.)—Summary of 143 *Picoides borealis* translocations.—J.C.J.
- DAWSON, D. 1994. **Are habitat corridors conduits for animals and plants in a fragmented landscape?** *English Nat. Res. Rep.* 94. (London Ecol. Unit, Bedford Ho., 125 Camden High St., London NW1 7JR, UK.)—Reviews theoretical and empirical evidence for value of corridors and suggests directions for further work.—D.J.L.M.
- DERRICKSON, S. R. 1994. **Reintroduction as a compo-**

- ment of the Hawaiian Crow recovery program.** AZA Annu. Conf. Proc. 1994: 82–88. (No address available.)—Use of captive breeding and soft release techniques for *Corvus hawaiiensis*.—J.C.J.
- DILKS, P. J., ET AL. 1996. **The effect of bait type, tunnel design, and trap position on stoat control for conservation management.** N. Z. J. Zool. 23: 295–306. (Sci. Res. Div., Dept. Conserv., Priv. Bag, Christchurch, NZ.)—Summarises effectiveness of trapping methods for *Mustela erminea* based on bird management programs in two South Island, New Zealand forests.—E.O.M.
- DOUMA, B., & M. CARLSON. 1993. **Captive alcid breeding.** AAZPA Annu. Conf. Proc. 1993: 71–77. (Seattle Aquarium, Pier 59, Waterfront Park, Seattle, WA 98101-2059, USA.)—*Fratercula cirrhata*, *Cerorhinca monocerata*, *Uria aalge*, *Cephus columba*.
- ELLIOTT, G. P. 1996. **Productivity and mortality of Mohua (*Mohoua ochrocephala*).** N. Z. J. Zool. 23: 229–237. (549 Rocks Rd., Nelson, NZ.)—Breeding monitored for 4 seasons. Success perhaps density-dependent. Productivity compared with that of other forest-dwelling passerines. When stoats *Mustela erminea* numerous in 1 year, they destroyed 67% of nests and 50% of nesting females.—E.O.M.
- FANCY, S. G., ET AL. 1996. **Distribution and population status of the endangered 'Akiapola'au.** Pacific Sci. 50: 355–362. (USGS/BRD, Pacific Islands Ecosyst. Res. Ctr., P.O. Box 44, Hawai'i Natl. Park, Hawai'i, HI 96718, USA.)—Total population of *Hemignathus munroi* estimated as 1163 at 5 sites during 1990–95, but at least 2 of these populations are headed for almost certain extirpation.—R.B.C.
- GREEN, A. J., & J. HUNTER. 1996. **The declining White-headed Duck: a call for information.** TWSG News 9: 19–21. (Estación Biológica de Doñana, Avenida de María Luisa s/n, Pabellón del Perú, 41013 Sevilla, Spain.)—*Oxyura leucocephala* winter counts in eastern Europe and Asia, and requests for further information on distribution of the species.—F.P.
- GREEN, A. J., & M. YARAR. 1996. **Rapid decline of White-headed Ducks at Burdur Lake, Turkey.** TWSG News 9: 16–18. (Estación Biol. de Doñana, Avenida de María Luisa s/n, Pabellón del Perú, 41013 Sevilla, Spain.)—*Oxyura leucocephala*, strong population decline since 1991 in the most important wintering site for the species.—F.P.
- GREENBERG, R. 1996. **Birds in the tropics. The coffee connection.** Birding 28: 471–472. (4891 Royce Rd., Irvine, CA 92715, USA.)—Traditional shade coffee plantations are critically important wintering sites for North American neotropical migrants. These plantations are being replaced by "sun" coffee plantations that are poor habitat for migratory landbirds because they lack overstory trees.—R.B.C.
- JACOBI, J. D., ET AL. 1996. **Long-term population variability in the Palila, an endangered Hawaiian honeycreeper.** Pacific Sci. 50: 363–370. (USGS/BRD, Pacific Islands Ecosyst. Res. Ctr., P.O. Box 44, Hawai'i Natl. Park, Hawai'i, HI 96718, USA.)—Mean population size for *Loxioides bailleui* 1980–1995 was 3390, but populations vary among years. Range has not changed since 1975 with peripheral populations having decreased significantly since 1980.—R.B.C.
- JAMES, R. E., & M. N. CLOUT. 1996. **Nesting success of New Zealand Pigeons (*Hemiphaga novaeseelandiae*) in response to a rat (*Rattus rattus*) poisoning programme at Wenderholme Regional Park.** N. Z. J. Ecol. 20: 45–51. (Sch. Biol. Sci., Univ. Auckland, Priv. Bag 92019, Auckland, NZ.)—Low-ers nest predation.—E.O.M.
- KABOUCHE, B., ET AL. 1996. **[Short-toed Eagle *Circus gallicus* mortality on electric wires in southeast France.]** Faune de Provence 17: 101–103. (1 rue Espariat, 13100 Aix-en-Provence, France.)—38 cases between 1987 and 1996. (French, Engl. summ.)—G.O.
- KITTELSON, S. 1996. **The return of a giant in the bird world to Minnesota.** Loon 68: 81–85. (Dept. Nat. Resour., Box 7, 500 Lafayette Rd., St. Paul, MN 55155, USA.)—History of reintroduction program for Trumpeter Swans, *Cygnus buccinator*.—D.L.E.
- KNOPE, F. L. 1997. **Rare, local, little known, and declining North American breeders. A closer look: Mountain Plover.** Birding 29: 38–44. (USGS/BRD, 4512 McMurry Ave., Ft. Collins, CO 80525-3400, USA.)—Breeding habitats, annual chronology of nesting and migration, status and conservation for *Charadrius montanus* with 6 color photos of bird and habitats and a range map.—R.B.C.
- KRUK, M., ET AL. 1996. **Hatching dates of waders and mowing dates in intensively exploited grassland areas in different years.** Biol. Conserv. 77: 213–218. (Sec. Environ. Biol., Inst. Evol. & Ecol. Sci., Leiden Univ. PO Box 9516, 2300 RA Leiden, Netherlands.)—Delaying current median mowing dates by 1-2 weeks maintains current population levels.—A.J.M.
- MCCLENNAN, J. A., ET AL. 1996. **Role of predation in the decline of kiwi, *Apteryx spp.*, in New Zealand.** N. Z. J. Ecol. 20: 27–35. (Manaaki Whenua, Landcare Res. NZ, Priv. Bag 1403, Havelock N., NZ.)—Ferrets and dogs responsible for c. 35% of adult deaths, and possums and mustelids for 10% of egg failures. However, current population decline can be halted only by reducing predation on juveniles, half of which taken by stoats and cats.—E.O.M.
- MILLER, P. J., & R. J. PIERCE. 1995. **Distribution and decline of the North Island Brown Kiwi (*Apteryx australis mantelli*) in Northland.** Notornis 42: 203–211. (Dept. Conserv., P.O. Box 842, Whangarei, NZ.)—Habitat destruction and predation involved in decline.—E.O.M.
- MORTON, K., ED. 1996. **1995 Raptor Round Up.** Scottish Birds 18 (Raptor Round Up suppl.): 1–20. (No

- address given.)—Scotland; includes breeding success.—P.J.C.
- O'BRIEN, T. G., & M. F. KINNARD. 1996. **Hornbill ecology and conservation in Southeast Asia: Lessons from islands.** AZA Annu. Conf. Proc. 1996: 284–289. (Wildl. Conserv. Soc.-Indonesia Prog., P.O. Box 311, J1 Ciremei No. 8, Bogor 16003, W. Java, Indonesia.)—*Aceros cassidix*, *Aceros everetti*, *Aceros plicatus*, *Penelopides exarhatus*. Comparison of possible human impact on territorial and non-territorial species.—J.C.J.
- O'DONNELL, C. F. J. 1996. **Predators and the decline of new Zealand forest birds: an introduction to the hole-nesting bird and predator programme.** N. Z. J. Zool. 23: 213–219. (Sci. Res. Div., Dept. Conserv., Priv. Bag, Christchurch, NZ.)—As cavity nesters, Mohua *Mohoua ochrocephala* and parakeets *Cyanoramphus* spp. are particularly at risk from stoats *Mustela erminea*. Gives background for eight studies that follow in this special issue.—E.O.M.
- O'DONNELL, C. F. J. 1996. **Monitoring Mohua (Yellowhead) populations in the South Island, New Zealand, 1983–93.** N. Z. J. Zool. 23: 221–228. (Sci. Res. Div., Dept. Conserv., Priv. Bag, Christchurch, NZ.)—14 populations of *Mohoua ochrocephala* monitored at 12 sites. Most declined over 11 years, 6 crashed after irruptions of stoats *Mustela erminea* which followed beech *Nothofagus* mast years.—E.O.M.
- O'DONNELL, C. F. J., ET AL. 1996. **Control of a stoat (*Mustela erminea*) population irruption to enhance Mohua (Yellowhead) (*Mohoua ochrocephala*) breeding success in New Zealand.** N. Z. J. Zool. 23: 279–286. (Sci. Res. Div., Dept. Conserv., Priv. Bag, Christchurch, NZ.)—Trapping stoats increases birds' breeding success.—E.O.M.
- O'DONNELL, C. F. J., & S. M. PHILLIPSON. 1996. **Predicting the incidence of Mohua predation from the seedfall, mouse, and predator fluctuations in beech forests.** N. Z. J. Zool. 23: 287–293. (Sci. Res. Div., Dept. Conserv., Priv. Bag, Christchurch, NZ.)—Good crops of beech *Nothofagus* spp. mast lead to higher mouse *Mus musculus* densities in South Island, New Zealand. The mouse irruption results in more stoats *Mustela erminea* which are key predators of *Mohoua ochrocephala*. An irruption of key Mohua predators can thus be predicted by monitoring both beech seedfall and indices of mouse density.—E.O.M.
- PEPPER, J. W. 1997. **A survey of the South Australian Glossy Black-Cockatoo *Calyptorhynchus lathami halmaturinus* and its habitat.** Wildl. Res. 24: 209–223. (Dept. Biol., Univ. Michigan, Ann Arbor, MI 48109, USA.)—Population of this endangered subspecies on Kangaroo Island probably <200. Assesses effects of grazing by livestock, wildfire, habitat loss and fragmentation.—M.G.B.
- PEREZ, C. J., P. J. SWANK, & D. W. SMITH. 1996. **Survival, movements and habitat use of Aplomado Falcons released in southern Texas.** J. Raptor Res. 30: 175–182. (USFWS, 320 N. Main, Room 225, McAllen, TX 78501, USA.)—*Falco femoralis*.
- POMAROL, M. 1996. **Artificial nest structure design and management implications for the Lesser Kestrel (*Falco naumanni*).** J. Raptor Res. 30: 169–172. (Dir. Gen. Medi Nat., Gran Via 612, 08007 Barcelona, Spain.)—95 of 229 under-roof, wood structures used; 10 of 29 ceramic structures used; 23 of 94 special roof-tile nest entrances used.—J.P.S.
- PORTER, R., & E. WARR. 1996. **Middle East birding and conservation organisations.** Sandgrouse 18 (2): 10–13. (BirdLife Int., Wellbrook Ct., Girton Rd., Cambridge CB3 0NA, UK.)
- RICHARDS, J. D., & J. SHORT. 1997. **History of the disappearance of native fauna from the Nullarbor Plain [S. Australia] through the eyes of a long time resident, Amy Crocker.** West. Aust. Nat. 21: 89–96. (CSIRO Division of Wildlife and Ecology, LMB 4, Midland, WA 6056, Australia.)—Contains references to *Leipoa ocellata*, *Ardeotis australis*, *Burhinus magnirostris*.—M.G.B.
- ROBERT, M., P. LAPORTE, & A. DEMERS. 1991. **[Loggerhead Shrike in Quebec: one century to get established... and disappear.]** Québec Oiseaux 2(4): 21–23. (Can. Wildl. Serv., P.O. Box 10100, Ste. Foy, PQ G1V 4H5, Can.)—*Lanius ludovicianus*. (French.)
- ROBERTS, H. 1995. **Focus on pigeons and doves: The captive propagation program for columbids at the Memphis Zoo.** AZA Reg. Conf. Proc. 1995: 129–134. (Memphis Zoo & Aquarium, 2000 Galloway Ave., Memphis, TN 38112, USA.)—15 species involved.—J.C.J.
- RYAN, M., & W. S. DRIESCHMAN. 1995. **A different approach to hand-rearing penguins.** AZA Reg. Conf. Proc. 1995: 135–141. (John G. Shedd Aq., 1200 S. Lakeshore Dr., Chicago, IL 60605, USA.)—*Pygoscelis papua*, *Pygoscelis antarctica*, *Aptenodytes patagonica*.
- SELTZ, J. 1995. **Passerine paradigms (changing the way we think).** AZA Reg. Conf. Proc. 1995: 342–344. (PACT Taxon Advisory Group, Sedgwick Co. Zoo, 5555 Zoo Blvd., Wichita, KS 67212, USA.)—Zoos still take many individuals from wild populations of passerines to maintain collections.—J.C.J.
- SMITH, K. A., ET AL. 1993. **Habitat and predation management for nesting Piping Plovers at Lostwood National Wildlife Refuge, North Dakota.** Prairie Nat. 25: 139–147. (USFWS, Lostwood NWR, RR2 Box 98, Kenmare, ND 58746, USA.)—Prescribed burning and predator exclusion increased nesting effort and success of *Charadrius melodus*.—S.W.G.
- STONEMAN, G. L., M. E. RAYNER, & F. J. BRADSHAW. 1997. **Size and age parameters of nest trees used by four species of parrot and one species of cockatoo in south-west Australia: critique.** Emu 97: 94–6. (Dept. Conserv. Land Manage., Corporate Headquarters, Locked Bag 104, Bentley Delivery Ctr, WA

- 6983, Australia.)—Conclude that Mawson & Long, 1994, *Emu* 94: 149–155 used biased estimates, which resulted in ill-founded conclusions about the impact of forest harvesting on availability of hollows.—S.R.P.
- WATSON, R. T., ET AL. 1996. **Breeding, growth, development, and management of the Madagascar Fish-eagle (*Haliaeetus vociferoides*).** *J. Raptor Res.* 30: 21–27. (The Peregrine Fund, 5666 W. Flying Hawk Ln., Boise, ID 83709, USA.)—4-year study documented potentially obligate siblicide in this rare species, and doubled fledgling production in 3 nests through use of sibling rescue.—J.P.S.
- WOOD, K. A. 1996. **Bird assemblages in a small public reserve and adjacent residential area at Wollongong, New South Wales.** *Wildl. Res.* 23: 605–620. (7 Eastern Ave., Mangerton, NSW 2500, Australia.)—Compares public reserve with adjacent residential areas using paired transect observations. Critically small population sizes place 9 reserve specialist species at risk of extinction.—M.G.B.
- ZIEWITZ, J. W., J. G. SIDLE*, & J. J. DINAN. 1992. **Habitat conservation for nesting Least Terns and Piping Plovers on the Platte River, Nebraska.** *Prairie Nat.* 24: 1–20. (USFWS, 203 W. Second St., Grand Island, NE 68803, USA.)—*Sterna antillarum*, *Charadrius melodus*; lack of preferred habitat (large, high, sparsely vegetated sandbars) may be limiting populations.—S.W.G.

Special Publications

- WERNER, J., ET AL., (EDS.). 1992. **The California Spotted Owl: a technical assessment of its current status.** USDA, For. Serv. Gen. Tech. Rep. PSW-GTR-133. (Order from Pacific SW Res. Stn.: P.O. Box 245, Berkeley, CA 94701-0245, USA.)—Contains 13 papers on the general biology, ecology, distribution, habitat, management, and conservation of *Strix occidentalis occidentalis*.—W.M.G.
- BECK, T. W., & G. I. GOULD, JR. **Background and the current management situation for the California Spotted Owl.** Pp. 37–54. (Stanislaus Nat. For., USDA For. Serv., 19777 Greenley Rd., Sonora, CA 95370, USA.)—Reviews past and current management, and discusses agencies having jurisdiction over habitat.
- GUTIERREZ, R. J., ET AL. **Habitat relations of the California Spotted Owl.** Pp. 79–98. (Dept. Wildl. Manage., Sch. Nat. Resour., Humboldt State Univ., Arcata, CA 95521, USA.)—Considers patterns of habitat use on fine and broad scales of analysis and in a variety of forest habitats.
- MCKELVEY, K. S., & J. D. JOHNSTON. **Historical perspectives on forests of the Sierra Nevada and the Transverse Ranges of southern California: forest conditions at the turn of the century.** Pp. 225–246. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Compares turn-of-the-century forest structure and composition with prehistoric and modern conditions. Today's forests have been changed significantly and may be unstable.
- MCKELVEY, K. S., & C. P. WEATHERSPOON. **Projected trends in owl habitat.** Pp. 261–276. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Present Forest Service land management plans are probably detrimental to protecting habitat, but silviculture practices might be made compatible with protecting owl habitat.
- NOON, B. R., ET AL. **Estimates of demographic parameters and rates of population change.** Pp. 175–186. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Consider application of tests of lambda on populations and implications for management.
- NOON, B. R., & K. S. MCKELVEY. **Stability properties of the Spotted Owl metapopulation in southern California.** Pp. 187–206. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Analyze the stability of a population occurring in several habitat "islands" on discrete mountain ranges.
- VERNER, J., ET AL. **Assessment of the current status of the California Spotted Owl.** Pp. 3–26. (For. Sci. Lab., USDA For. Serv., 2081 East Sierra Ave., Fresno, CA 93710, USA.)—Summarize the key findings of the technical assessment and give recommendations for research and management.
- VERNER, J., & R. J. TAYLOR. **Future directions for the California Spotted Owl effort.** Pp. 27–36. (For. Sci. Lab., USDA For. Serv., 2081 E. Sierra Ave., Fresno, CA 93710, USA.)—Discuss future inventory, monitoring, and research efforts needed for managing populations.
- VERNER, J., R. J. GUTIERREZ, & G. I. GOULD, JR. **The California Spotted Owl: general biology and ecological relations.** Pp. 55–78. (For. Sci. Lab., USDA For. Serv., 2081 East Sierra Ave., Fresno, CA 93710, USA.)
- WEATHERSPOON, C. P., S. J. HUSARI, & J. W. VAN WAGTENDONK. **Fire and fuels management in relation to owl habitat in forests of the Sierra Nevada and southern California.** Pp. 247–260. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Forest changes have greatly increased potential for stand-replacing crown fires, which may be the greatest threat to habitat.
- WILLIAMS, D. G., ET AL. **General biology of major prey species of the California Spotted Owl.** Pp. 207–224. (For. Sci. Lab., USDA For. Serv., 2081 E. Sierra Ave., Fresno, CA 93710, USA.)
- ZABEL, C. J., ET AL. **Home-range size and habitat-use patterns of California Spotted Owls in the Sierra Nevada.** Pp. 149–164. (Redwood Sci. Lab.,

- USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Consider habitat selection based on an intermediate, habitat-polygon scale of analysis.
- ZABEL, C. J., K. S. MCKELVEY, & J. D. JOHNSTON. **Patterns of habitat use by California Spotted Owls in logged forests of the northern Sierra Nevada.** Pp. 165–174. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95221, USA.)—Cutting practices can make some red fir forests unsuitable for foraging.
- RALPH, C. J., ET AL., EDS. 1995. **Ecology and conservation of the Marbled Murrelet.** USDA, For. Serv. Gen. Tech. Rep. PSW-GTR-152. (Order from Pacific SW Res. Stn.: P.O. Box 245, Berkeley, CA 94701-0245, USA.)—37 papers compile information to meet goals of USDA Forest Service conservation assessment for *Brachyramphus marmoratus*.—W.M.G.
- AINLEY, D. G., S. G. ALLEN, & L. B. SPEAR. **Offshore occurrence patterns of Marbled Murrelets in Central California.** Pp. 361–370. (Pt. Reyes Bird Obs., 4990 Shoreline Hwy., Stinson Beach, CA 94970, USA.)—Most sightings occur within 10 km of shore and directly offshore of species' breeding area.
- BEISSINGER, S. B. **Population trends of the Marbled Murrelet projected from demographic analyses.** Pp. 385–394. (Sch. For. & Environ. Stud., Yale Univ., New Haven, CT 06511, USA.)—Demographic model, based on juvenile/adult ratios, suggests 4%–6% annual decline. Predicted rates of decline agree with some survey-based studies.
- BURGER, A. E. **Inland habitat associations of Marbled Murrelets in British Columbia.** Pp. 151–162. (Dept. Biol., Univ. Victoria, Victoria, B.C., V8W 2Y2, Can.)—Found most often in low-elevation old growth forest with well-developed epiphytic mosses. Predation rates higher for forest edges.
- BURGER, ALAN E. **Marine distribution, abundance, and habitats of Marbled Murrelets in British Columbia.** Pp. 295–312. (Dept. Biol., Univ. Victoria, Victoria, BC V8W 2Y2, Can.)—Reviews numbers and distribution based on at-sea surveys. Possible declines of 30%–60% in some areas.
- BURKETT, E. E. **Marbled Murrelet food habits and prey ecology.** Pp. 223–246. (California Dept. Fish & Game, 1416 Ninth St., Sacramento, CA 95814, USA.)—Eats chiefly crustaceans (more important in winter and spring) and small, schooling fish (more important during the summer nesting and fledging period).
- CARTER, H. R., & K. J. KULETZ. **Mortality of Marbled Murrelets due to oil pollution in North America.** Pp. 261–270. (U.S. Geol. Survey, Biol. Res. Div., U.S. Dept. Interior, California Pacific Sci. Ctr., 6924 Tremont Rd., Dixon, CA 95620, USA.)—Effect of large oil spills and chronic oil pollution on mortality poorly documented but probably has contributed to declines.
- CARTER, H. R., M. L. C. MCALLISTER, & M. E. ISLEIB. **Mortality of Marbled Murrelets in gill nets in North America.** Pp. 271–284. (U.S. Geol. Survey, Biol. Res. Div., California Pacific Sci. Ctr., 6924 Tremont Rd., Dixon, CA 95620, USA.)—Accidental gill net capture off Alaska likely results in mortality of several thousand to tens of thousands per year, with significant, but lesser, annual mortality off states and provinces to the south. Little has been done to study or reduce gill net mortality.
- CARTER, H. R., & J. L. STEIN. **Molts and plumages in the annual cycle of the Marbled Murrelet.** Pp. 99–112. (U.S. Geol. Survey, Biol. Res. Div., U.S. Dept. Interior, California Pacific Sci. Ctr., 6924 Tremont Rd., Dixon, CA 95620, USA.)—Discusses range of molts and plumages. Autumn at-sea adults in pre-basic molt difficult to distinguish from juveniles; field methods given for separation.—W.M.G.
- DE SANTO, T. L., & S. K. NELSON. **Comparative reproductive ecology of the auks (family Alcidae) with emphasis on the Marbled Murrelet.** Pp. 33–48. (Pacific NW Res. Stn., USDA For. Serv., 2770 Sherwood Ln., Suite 2A, Juneau, AK 99801-8545, USA.)—Unique among alcids in choice of nesting habitat. Fledging success in monitored nests markedly lower than that for other alcids.
- DIVOKY, G. J., & M. HORTON. **Breeding and natal dispersal, nest habitat loss, and implications for Marbled Murrelet populations.** Pp. 83–88. (Inst. Arctic Biol., Univ. Alaska, Fairbanks, AK 99705, USA.)—Annual fidelity to nest stands may be high. Discuss implications of stand loss and dispersal patterns to assessing population status.
- FRY, D. M. **Pollution and fishing threats to Marbled Murrelets.** Pp. 257–260. (Dept. of Avian Sci., Univ. California, Davis, Davis, CA 95616, USA.)—Reviews threats from chlorinated organic effluent of pulp mills, agricultural chemicals, oil spills, and gill net fisheries.
- GRENIER, J. J., & S. K. NELSON. **Marbled Murrelet habitat associations in Oregon.** Pp. 191–204. (1402 Cedar St., Philomath, OR 97370, USA.)—Support previous studies that indicate use of forest with old-growth characteristics, and that stand structure is more important than stand age.
- HAMER, T. E. **Inland habitat associations of Marbled Murrelets in western Washington.** Pp. 163–176. (Hamer Environ., 2001 Hwy. 9, Mt. Vernon, WA 98273, USA.)—Compares attributes of occupied and unoccupied forest stands. Reproductive success, in addition to occupancy rate, should be a measure of habitat suitability.
- HAMER, T. E., & S. K. NELSON. **Nesting chronology**

- of the **Marbled Murrelet**. Pp. 49–56. (Hamer Environ., 2001 Hwy. 9, Mt. Vernon, WA 98273, USA.)—Breeding season much longer (182 days) and less synchronous than for many other alcids.
- HAMER, T. E., & S. K. NELSON. **Characteristics of Marbled Murrelet nest trees and nesting stands**. Pp. 69–82. (Hamer Environ., 2001 Hwy. 9, Mt. Vernon, WA 98273, USA.)—Stand structures, and processes within stands, may be more important than tree size alone for suitable nesting habitat.
- HUNT, G. L., JR. **Oceanographic processes and marine productivity in waters offshore of Marbled Murrelet breeding habitat**. Pp. 219–222. (Dept. Ecol. & Evol. Biol., Univ. California, Irvine, Irvine, CA 92717, USA.)—Offshore ocean currents tend to dominate productivity in marine habitat, but wind driven Ekman transport and upwelling can create local productivity zones. Tidal processes influence productivity in bays.
- HUNT, G. L., JR. **Monospecific and mixed species foraging associations of Marbled Murrelets**. Pp. 255–256. (Dept. Ecol. & Evol. Biol., Univ. California, Irvine, Irvine, CA 92717, USA.)—Foraging in exposed, outer-coast waters is usually in pairs or monospecific flocks, while those in protected water frequently associated with other avian species. Gull kleptoparasitism may be greater in such associations.
- KONYUKHOV, H. B., & A. S. KITAYSKY. **The Asian race of the Marbled Murrelet**. Pp. 23–32. (Lab. Bird Ecol., Inst. Anim. Evol., Morphol., & Ecol., Leninsky Pr., 33, Moscow 117071, Russia.)—Although *Brachyramphus marmoratus perdix* is migratory, its biology and ecology are similar to those of North American race. Populations of Asian race not censused but may be threatened.
- KULETZ, K. J., ET AL. **Inland habitat suitability for the Marbled Murrelet in southcentral Alaska**. Pp. 141–150. (USFWS, 1011 E. Tudor Rd., Anchorage, AK 99503, USA.)—Give statistical models that explain variation in activity levels and predict the occurrence of behavior indicative of nesting.
- MILLER, S. L., & C. J. RALPH. **Relationship of Marbled Murrelets with habitat characteristics at inland sites in California**. Pp. 205–218. (Redwood Sci Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Contrary to other studies, found that larger forest stands were no more likely than smaller stands to have birds present.
- NASLUND, N. L., & B. P. O'DONNELL. **Daily patterns of Marbled Murrelet activity at inland sites**. Pp. 129–134. (USFWS, 1101 E. Tudor Rd., Anchorage, AK 99503, USA.)—Discuss variation in detections (calls, wing sounds, etc.) relative to diurnal time, season, weather, and latitude.
- NELSON, S. K., & T. E. HAMER. **Nesting biology and behavior of the Marbled Murrelet**. Pp. 57–68. (Oregon Coop. Wildl. Res. Unit, Oregon State Univ., Nash 104, Corvallis, OR 97331-3803, USA.)—Most parental incubation exchanges and feedings of young at twilight. Secretive, low-light-level activity thought to avoid predation.
- NELSON, S. K., & T. E. HAMER. **Nest success and the effects of predation on Marbled Murrelets**. Pp. 89–98. (Oregon Coop. Wildl. Res. Unit, Oregon State Univ., Nash 104, Corvallis, OR 97331-3803, U.S.A.)—Nest failures mainly from predation of their single eggs or young. Predation rates appear higher than for many seabirds and forest birds. Successful nests farther from forest edges.
- O'DONNELL, B. P. **A review of the effects of station placement and observer bias in detections of Marbled Murrelets in forest stands**. Pp. 139–140. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)
- O'DONNELL, B. P., N. L. NASLUND, & C. J. RALPH. **Patterns of seasonal variation of activity of Marbled Murrelets in forested stands**. Pp. 117–128. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Activity peaks in summer, is lower in winter, and is rare or absent during transitional molt periods. Much behavior in forest stands remains unknown.
- PATON, P. W. C. **Marbled Murrelet inland patterns of activity: defining detections and behavior**. Pp. 113–116. (Utah Coop. Fish & Wildl. Unit, Utah State Univ., Logan, UT 84322, USA.)—Summarizes terminology, methodology, and problems in detection and quantification of use of inland forest stands.
- PERRY, D. A. **Status of forest habitat of the Marbled Murrelet**. Pp. 381–384. (For. Sci. Dept., Oregon State Univ., Corvallis, OR 97331, USA.)
- PIATT, J. F., & N. L. NASLUND. **Abundance, distribution, and population status of Marbled Murrelets in Alaska**. Pp. 285–294. (U.S. Geol. Survey, Biol. Res. Div., Alaska Sci. Ctr., 1011 E. Tudor Rd., Anchorage, AK 99503, USA.)—Alaska populations may have declined by 50% since 1972. Low reproductive rate probably insufficient to offset annual adult mortality. Reasons for adult mortality discussed.
- RALPH, C. J. **Interannual differences in detections of Marbled Murrelets in some inland California stands**. Pp. 135–138. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Detections at 3 California inland sites did not vary significantly among years, nor (with 1 exception) for any given month among years. Data from 1 year may suffice to detect stand occupancy, at least in larger stands.
- RALPH, C. J., ET AL. **Ecology and conservation of the Marbled Murrelet in North America: an overview**. Pp. 3–22. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521,

- USA.)—Integrate information from the symposium and elsewhere. Propose future research needs and management actions.
- RALPH, C. J., & L. L. LONG. **Productivity of Marbled Murrelets in California from observations of young at sea.** Pp. 371–380. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Designed and tested intensive survey method to identify juveniles. 2.2% of population were juveniles. Cite factors that could affect estimate.
- RALPH, C. J., & S. L. MILLER. **Offshore population estimates of Marbled Murrelets in California.** Pp. 353–360. (Redwood Sci. Lab., USDA For. Serv., 1700 Bayview Dr., Arcata, CA 95521, USA.)—Census method developed gave estimate of about 6,500 individuals.
- RAPHAEL, M. G., J. A. YOUNG, & B. M. GALLEHER. **A landscape-level analysis of Marbled Murrelet habitat in western Washington.** Pp. 177–190. (Pacific NW Res. Stn., USDA For. Serv., 4625 93rd Ave., Olympia, WA 98512-9193, USA.)—Old growth forest and large sawtimber comprised 36% of occupied forest sites, 30% of forest sites where species detected, and only 18% where species undetected. Mean patch size of mature forest greatest in occupied sites.
- SPEICH, S. M., & T. R. WAHL. **Marbled Murrelet populations of Washington—marine habitat preferences and variability of occurrence.** Pp. 313–326. (Dames & Moore, Inc., 1790 E. River Rd., Suite E-300, Tucson, AZ 85718, USA.)—Occurs in low numbers in Puget Sound marine habitats and may have declined. Offshore populations studied have declined since 1989, along with some other oceanic avian species.
- STRACHAN, G., M. MCALLISTER, & C. J. RALPH. **Marbled Murrelet at-sea and foraging behavior.** Pp. 247–254. (Año Nuevo State Reserve, New Year's Creek Rd., Pescadero, CA 94060, USA.)—Usually present as singles or pairs, dive in waters 20 to 80 m in depth in a zone 200 to 2,000 m from shore. Larger aggregations commoner to north.
- STRONG, C. S., ET AL. **Distribution and population estimates of Marbled Murrelets at sea in Oregon during the summers of 1992 and 1993.** Pp. 339–352. (Crescent Coastal Res., 7700 Bailey Rd., Crescent City, CA 95531, USA.)—Transect surveys gave population estimate between 15,000–20,000. Many of these birds may not be nesting successfully, however.
- VAROUJEAN, D. H., II, & W. A. WILLIAMS. **Abundance and distribution of Marbled Murrelets in Oregon and Washington based on aerial surveys.** Pp. 327–338. (Marzet, Mar. & Estuarine Res. Co., 2269 Broadway St., North Bend, OR 97459, USA.)—Population sizes may not have changed appreciably over last 10 years and populations may not be in long-term decline.
- DISEASES, PARASITES, & PATHOLOGY**
- BAYSSADE-DUFOUR, C., ET AL. 1996. [*Catatropis lagunae* n. sp., Trematoda, Notocotylidae, parasite of seabirds.] *Can. Field-Nat.* 110: 392–402. (Mus. Natl. d'Hist. Nat., Lab. Biol. parasit., Protistol., Helminthol., 61, r. Buffon F 75231, Paris Cedex 06, France.)—*Anser anser*, *Anas platyrhynchos*, *Cairina moschata*. (French.)
- BELL, P. J. 1996. **Survey of the nasal mite fauna (Rhinonyssidae and Kytoditidae) of the Gouldian Finch, *Erythrura gouldiae*, and some co-occurring birds in the Northern Territory.** *Wildl. Res.* 23: 675–685. (Conserv. Comm. NT, P.O. Box 496, Palmerston, NT 0830, Australia.)—Mite infection highest in Gouldian Finches and *Pictorella mannikins*. *Heteromuria (Lonchura) pectoralis*, *Poephila personata*, *Melopsittacus undulatus*.—M.G.B.
- CONOVER, M. R., & T. A. MESSMER. 1996. **Consequences for captive Zebra Finches of consuming tall fescue with the endophytic fungus *Acremonium coenophialum*.** *Auk* 113: 492–495. (Dept. Fish. Wildl., Utah State Univ., Logan, UT 84322, USA.)—Eating infected fescue seeds at higher ambient temperatures increased mortality in *Taeniopygia guttata*.—M.L.F.
- DABBERT, C. B., R. L. LOCHMILLER, & R. G. TEETER. 1997. **Effects of acute thermal stress on the immune system of the Northern Bobwhite (*Colinus virginianus*).** *Auk* 114: 103–109. (Dept. Zool., Oklahoma State Univ., Stillwater, OK 74078, USA.)—Heat stress did not affect immunity, but cold stress may compromise resistance to viral pathogens.—A.D.D.
- FRANSON, J. C., ET AL. 1996. **A retrospective study of postmortem findings in Red-tailed Hawks.** *J. Raptor Res.* 30: 7–14. (Natl. Wildl. Health Ctr., 6006 Schroeder Rd., Madison, WI 53711-6223, USA.)—Common causes of death in *Buteo jamaicensis* included emaciation, shooting, electrocution, agricultural and other poisoning, infectious disease, and other traumatic injuries.—J.P.S.
- HERRMANN, C. M., & T. J. SNETSINGER. 1997. **Pox-like lesions on endangered Puaiohi (*Myadestes palmeri*) and occurrence of mosquito (*Culex quinquefasciatus*) populations near Koaia Stream [Kaua'i].** *'Elepaio* 57: 1–3. (USGS/BRD, Pacific Island Sci. Ctr., P.O. Box 1319, Kekaha, HI 96752, USA.)—Such lesions also noted on 5 other native Hawaiian birds: *Hemignathus kauaiensis*, *Chasiempis sandwichensis sclateri*, *Myadestes myadestinus*, *Myadestes lanaiensis*, *Myadestes obscurus*; *Culex* is a possible vector.—R.B.C.
- HIGGINS, K. F., ET AL. 1992. **Mycotoxin occurrence in waste field corn and ingesta of wild geese in the Northern Great Plains.** *Prairie Nat.* 24: 31–37. (USFWS, S. Dakota Coop. Fish Wildl. Res. Unit, Brookings, SD 57007, USA.)—Mycotoxins may

have compromised immune systems of geese, contributing to death from avian cholera.—S.W.G.

- JARVI, S. I., ET AL. 1995. **A complex alloantigenin system in Florida Sandhill Cranes, *Grus canadensis pratensis*: Evidence for a major histocompatibility (B) system.** *J. Hered.* 86: 348–353. (Mol. Genet. Lab., Natl. Zool. Park, Smithsonian Inst., Washington, DC 20008, USA.)
- LEE, P. L., & D. H. CLAYTON*. 1995. **Population biology of swift (*Apus apus*) ectoparasites in relation to host reproductive success.** *Ecol. Entomol.* 20: 4–50. (Dept. Zool., Univ. Oxford, S. Parks Rd., Oxford OX1 3PS, UK.)—Two ectoparasites (*Dennyus hirundinis* and *Crataerina pallida*) on swifts transmitted from adult to offspring. Parasite density was low and constant throughout the study; no correlation found between host reproduction and parasite intensity.—D.E.W.D.
- MONROE, A., P. NOAH, & S. BROWN. 1993. **Comparison of medical treatment regimes for aspergillosis in captive Tufted Puffins (*Lunda cirrhata*).** *AAZPA Annu. Conf. Proc.* 1993: 78–82. (Oregon Coast Aquarium, 2820 SE Ferry Slip Rd., Newport, OR 97365, USA.)
- SMITH, M. A. 1996. **Avian botulism at the Port of Wilmington, Delaware in 1996.** *Delmarva Ornithol.* 28: 15–19. (2 Hillcrest Ave., Wilmington, DE 19809, USA.)—200 or more shorebirds died presumably from botulism, based on strong circumstantial evidence.—R.B.C.

DISTRIBUTION—GENERAL

- CONTRERAS, A. 1997. **Is local field ornithology the future of birding?** *Birding* 29: 55–56. (2254 Crestview Dr. S., Salem, OR 97302-5853, USA.)—Intensive work on local areas can produce highly useful summations of information.—R.B.C.
- FORSTEN, A., & W. COLLINS. 1996. **Using pagers to distribute bird information.** *Birding* 28: 515–517. (Hantverkareg. 14 D 9, FIN-20100 Turku, Finland; e-mail: Annika.Forsten@abo.fi)—Describe a system used in Finland for some 10 years in chasing rarities.—R.B.C.
- HUNT, P. 1997. **Local record keeping.** *Birding* 29: 54. (P.O. Box 289, Enfield, NH 03748, USA.)—On the importance of counting birds consistently and on tabulating numbers rather than just remarks on relative abundance.—R.B.C.

DISTRIBUTION—AFROTROPICAL

- BENNETT, G. 1996. **Birding in Natal, South Africa: an introduction.** *Birding* 28: 490–499. (P.O. Box 100502, Scottsville 3209, S. Africa.)
- COSSEE, R. O. 1995. **New Zealand-banded Sooty Tern (*Sterna fuscata*) breeds in the Seychelles.** *Notornis* 42: 280. (NZ Natl. Banding Scheme, Dept. Conserv., P.O. Box 10420, Wellington, NZ.)—Chick banded on Raoul Island in Dec 1961, found breeding on Aride Island in Jun 1995.—E.O.M.
- DYMOND, J. N., & R. F. PORTER. 1996. **The Socotra *Cisticola Cisticola haesitata*.** *Sandgrouse* 17: 145–147. (Burgadies, S. Punds, Levenwick, Shetland ZE2 9HX, UK.)
- DYMOND, J. N. 1996. **The Socotra Warbler *Incana incana*.** *Sandgrouse* 17: 142–144. (Burgadies, S. Punds, Levenwick, Shetland ZE2 9HX, UK.)
- GIRARD, O., & J. THAL. 1996. **[Some ornithological observations in the region of Garoua, Cameroon.]** *Malimbus* 18: 142–148. (CNERA Avifaune migratrice, Chanteloup, 85340 île d'Olonne, France.)—New distribution and breeding data on 20 species during 18 days in Oct–Nov 1992 and 1994, with unpublished records since 1977. (French, Engl. summ.)—P.W.P.B.
- GREEN, A. A., & P. G. RODENWALD. 1996. **New bird records from Korup National Park and environs, Cameroon.** *Malimbus* 18: 122–133. (78 Reynolds Rd., Shelburne Falls, MA 01370, USA.)—Observations on 66 species, mostly from 1991–1995 but with a few older records.—P.W.P.B.
- GREEN, A. A. 1996. **More bird records from Rio del Rey estuary, Cameroon.** *Malimbus* 18: 112–121. (78 Reynolds Rd., Shelburne Falls, MA 01370, USA.)—Summarizes abundance, seasonal occurrence and habitat of 67 species (23 new to area) from observations made during 13 visits from 1991–1994.—P.W.P.B.
- KIRWAN, G. M., ET AL. 1996. **The status of birds in Socotra and Abd al-Kuri and the records of the OSME survey in spring 1993.** *Sandgrouse* 17: 83–101. (6 Connaught Rd., Norwich NR2 3BP, UK.)
- MARTINS, R. P., & R. F. PORTER. 1996. **The *Buteo* population in Socotra.** *Sandgrouse* 17: 134–137. (6 Connaught Rd., Norwich NR2 3BP, UK.)
- MORTON, K. M. 1996. **The Socotra Bunting *Emberiza socotrana*.** *Sandgrouse* 17: 155–157. (31 Braehead Ave., Edinburgh EM4 6QN, UK.)
- PORTER, R. F., & F. STONE. 1996. **An introduction to Socotra and its birds.** *Sandgrouse* 17: 73–80. (BirdLife Int., Wellbrook Ct., Girton Rd., Cambridge CB3 0NA, UK.)
- PORTER, R. F., & R. P. MARTINS. 1996. **The Socotra Starling *Onychognathus frater* and Somali Starling *O. blythii*.** *Sandgrouse* 17: 151–154. (BirdLife Int., Wellbrook Ct., Girton Rd., Cambridge CB3 0NA, UK.)
- PORTER, R. F., J. N. DYMOND, & R. P. MARTINS. 1996. **Forbes-Watson's Swift *Apus berliozii* in Socotra.** *Sandgrouse* 17: 138–141. (BirdLife Int., Wellbrook Ct., Girton Rd., Cambridge CB3 0NA, UK.)
- RODWELL, S. P., ET AL. 1996. **An annotated check-list of birds occurring in the Parc National des Oiseaux du Djoudj in Senegal, 1984–1994.** *Malimbus* 18: 74–111. (Wetland Trust, Elms Farm, Pett Ln., Icklesham, Winchelsea, E. Sussex TN36 4AH, UK.)—316 species including 8 new to Senegal and

- 51 new to Park; information on status, abundance, population trends, seasonal occurrence, maximum counts, and breeding of 60 species.—P.W.P.B.
- SHOWLER, D. A., & P. DAVIDSON. 1996. **The Socotra Sunbird *Nectarinia balfouri***. Sandgrouse 17: 148–150. (c/o OSME, The Lodge, Sandy, Beds. SG19 2DL, UK.)
- DISTRIBUTION—AUSTRALASIA AND OCEANIA**
- BOURNE, W. R. P. 1995. **Notes on a gadfly petrel *Pterodroma* sp. collected off the Antipodes Islands**. Notornis 42: 78.—Identification of an Am. Mus. Nat. Hist. specimen deserves further study.—E.O.M.
- BRITTON, P. L., & H. A. BRITTON. 1996. **Additional sightings of the Striated Heron on inland freshwaters**. Aust. Bird Watcher 16: 349. (All Souls' & St. Gabriel's Sch., Charters Towers, Qld. 4820, Australia.)—*Butorides striatus* 95 km from nearest Australian coastline.—I.D.E.
- CARTER, M. 1997. **Red-throated Pipit *Anthus cervinus* in Australia**. Aust. Bird Watcher 17: 3–10. (30 Canadian Bay Rd., Mt Eliza, Vic. 3930, Australia.)—First authenticated record for Australia.—I.D.E.
- CHAPMAN, A., & K. R. NEWBEY. 1995. **A vertebrate fauna survey and some notes on the vegetation of the Ravensthorpe Range, Western Australia**. CALM Science 1: 465–508. (CALM, P.O. Box 101873, Kalgoorlie, WA 6430, Australia.)
- CLARK, G., & C. J. R. ROBERTSON. 1996. **New Zealand White-capped Mollmawks (*Diomedea cauta steadi*) breeding with Black-browed Mollmawks (*D. melanophrys melanophrys*) at Antipodes Islands, New Zealand**. Notornis 43: 1–6. (Homelands Organic Orchard, 18 Kemp Rd., Kerikeri, NZ.)—New breeding record. Discusses Mollmawk sightings on Bollons Island.—E.O.M.
- CLARK, G., ET AL. 1995. **Unexpectedly large numbers of Wandering Albatrosses (*Diomedea exulans*) on Antipodes Island, New Zealand**. Notornis 42: 42–46. (Homelands Organic Orchard, 18 Kemp Rd., Kerikeri, NZ.)—4522 breeding birds on eggs.—E.O.M.
- COATES, B. 1995. **Maned Duck (Australian Wood Duck) *Chenonetta jubata* near Port Moresby: the first record for the New Guinea region**. Muruk 7: 73–74. (P.O. Box 59, Alderley, Qld. 4051, Australia.)
- DELL, J., & R. HOW. 1996. **Painted Button-quail on the Swan Coastal Plain [W. Australia]**. West. Aust. Nat. 21: 87–88. (WA Mus., Francis St., Perth, WA 6000, Australia.)—*Turnix varia*.
- EGAN, K. H., J. R. FARRELL, & D. L. PEPPER-EDWARDS. 1997. **Historical and seasonal changes in the community of forest birds at Longneck Lagoon nature reserve, Scheyville, New South Wales [Australia]**. Corella 21: 1–16. (1 Bowman St., Mortdale, NSW 2223, Australia.)—Predominantly environmental causes for changes in status.—I.D.E.
- ELLIOTT, G., & G. RASCH. 1995. **Yellowhead (*Mohoua ochrocephala*) survey in the Eglinton Valley [New Zealand], November 1992**. Notornis 42: 94–98. (549 Rocks Rd., Nelson, NZ.)—One of largest remaining populations of this South Island endemic.—E.O.M.
- FRITH, C. B. 1995. **Range extension of the Splendid *Astrapia Astrapia splendidissima*, a sighting of an *A. mayeri* × *A. stephaniae* hybrid, or an unidentified *Astrapia* sp. (Paradisaeidae)?** Muruk 7: 49–52. (P.O. Box 581, Malanda, Qld, Australia 4885.)
- GILL, B. J. 1995. **Notes on the birds of Wallis and Futuna, south-west Pacific**. Notornis 42: 17–22. (Auckland Inst. Mus., Priv. Bag 92018, Auckland, NZ.)—2-wk survey, Sep–Oct 1993.—E.O.M.
- GILL, B. J., ET AL. 1995. **Red-vented Bulbuls (*Pycnonotus cafer*) in New Caledonia**. Notornis 42: 214–215. (Auckland Inst. Mus., Priv. Bag 92018, Auckland, NZ.)—Released illegally in 1982 and apparently establishing in the area.—E.O.M.
- HALSE, S. A., ET AL. 1996. **Waterbird surveys of the Middle Fly River Floodplain, Papua New Guinea**. Wildl. Res. 23: 557–569. (CALM, P.O. Box 51, Wanneroo, WA 6065, Australia.)—Recorded 58 species during surveys in Dec 1994 and Apr 1995 on grassed floodplains. Migration across Torres Strait may be important for maintenance of numbers in both New Guinea and Australia.—M.G.B.
- HALSE, S. A., ET AL. 1994. **Annual waterfowl counts in south-western Western Australia 1990–1991**. CALM Science 1: 107–129. (CALM, P.O. Box 51, Wanneroo, WA 6065, Australia.)
- HALSE, S. A., ET AL. 1995. **Annual waterfowl counts in south-west Western Australia**. CALM Science 2: 1–24. (CALM, P.O. Box 51, Wanneroo, WA 6065, Australia.)
- HALSE, S. A., R. J. SHIEL, & G. B. PEARSON. 1997. **Waterbirds and aquatic invertebrates of swamps on the Victoria—Bonaparte mudflat, northern Western Australia**. J. Roy. Soc. West. Aust. 79: 217–221. (CALM, P.O. Box 51, Wanneroo, WA 6065, Australia.)—62 species of waterbirds recorded in Feb and Apr 1993. The mudflat has national significance for shorebirds, especially Redshanks, *Tringa totanus*.—M.G.B.
- JOHNSTONE, R. E., & J. C. DARNELL. 1996. **A Blue and White Flycatcher *Ficedula cyanomelana*, a new bird for Australia**. West. Aust. Nat. 21: 43–48. (WA Mus., Francis St., Perth, WA 6000, Australia.)—*Cyanoptila cyanomelaena* described and illustrated.—M.G.B.
- KENNEDY, R. S., P. C. GONZALES, & H. C. MIRANDA. 1997. **New *Aethopyga* sunbirds (Aves: Nectariniidae) from the island of Mindanao, Philippines**. Auk 114: 1–10. (Mus. Nat. Hist. Sci., Cincinnati Mus. Ctr., 1720 Gilbert Ave., Cincinnati, OH 45211, USA.)—Describe a new species (*Aethopyga linara*—

- borae*) and subspecies (*Aethopyga boltoni tibolii*) from an isolated mountain region.—M.L.F.
- MARSH, N. 1995. **Nankeen Night Herons (*Nycticorax caledonicus*) on the Wanganui River.** Notornis 42: 282–283. (Dept. Conserv., Priv. Bag 3016, Wanganui, NZ.)—At least 10 seen. Probably now breeds in New Zealand.—E.O.M.
- MCKENZIE, N. L., & J. K. ROLFE. 1995. **The Biological Survey of the Eastern Goldfields of Western Australia. Part 11. Boorabbin—Southern Cross Study Area. Vertebrate fauna.** Rec. West. Aust. Mus. Suppl. 49: 31–65. (CALM, P.O. Box 51, Wanneroo, WA 6065, Australia.)—Records 92 bird species.—M.G.B.
- MCKENZIE, N. L., & J. K. ROLFE. 1995. **The Biological Survey of the Eastern Goldfields of Western Australia. Part 12. Boorabbin—Southern Cross Study Area. Vertebrate fauna.** Rec. West. Aust. Mus. Suppl. 49: 208–245. (CALM, P.O. Box 51, Wanneroo, WA 6065, Australia.)—Records 114 bird species.—M.G.B.
- MCKENZIE, N. L., ET AL. 1995. **Biological inventory of Koolan Island, Western Australia. 2. Zoological notes.** Rec. West. Aust. Mus. 17: 249–266. (CALM, P.O. Box 51, Wanneroo, WA 6065, Australia.)—Includes data on 116 species from 10 years of monthly observations.—M.G.B.
- NEWBEY, B., & A. CHAPMAN. 1995. **A biological survey of the Fitzgerald area, Western Australia. Part 5. Birds.** CALM Science Supple. 3: 47–82. (CALM, P.O. Box 10173, Kalgoorlie, WA 6430, Australia.)
- O'DONNELL, C. F. J., & J. A. WEST. 1995. **Classified summarised notes: South Island [New Zealand], 1 July 1992–30 June 1993.** Notornis 42: 53–77. (Dept. Conserv., Priv. Bag, Christchurch, NZ.)—Censuses and observations of behaviour.—E.O.M.
- O'DONNELL, C. F. J. 1995. **Classified summarised notes, South Island [New Zealand], 1 July 1993 to 30 June 1994.** Notornis 42: 263–279. (Sci. Res. Div., Dept. Conserv., Priv. Bag, Christchurch, NZ.)—Censuses and observations of behaviour.—E.O.M.
- PARRISH, G. R., & W. J. LOCK. 1995. **Classified summarised notes, North Island [New Zealand], 1 July 1993 to 30 June 1994.** Notornis 42: 145–173. (145 Church St., Whangarei, NZ.)—Censuses and observations of behaviour.—E.O.M.
- SHANY, N. 1995. **Juvenile Papuan Hawk-Owl *Uroglaux dimorpha* near Vanimo [Papua New Guinea].** Muruk 7: 74. (1718 Burgundy, Leucadia, CA 92024, USA.)
- TENNYSON, A., & R. PIERCE. 1995. **The presence of Pycroft's Petrel (*Pterodroma pycrofti*) and other petrels on Mauitaha Island, New Zealand.** Notornis 42: 212–214. (Threatened Species Unit, Dept. Conserv., P.O. Box 10420, Wellington, NZ.)
- TICKELL, W. L. N. 1996. **Short-tailed Albatrosses at Midway Atoll.** 'Elepaio 56: 46–47. (No address given.)—Refutes report that *Diomedea albatrus* had fledged young on Midway in 1961 and 1962; with additional remarks by S. Richardson.—R.B.C.
- TRAILL, B. J., ET AL. 1996. **Current and past status of the birds of Chiltern—a Box-Ironbark forest in North-eastern Victoria [Australia].** Aust. Bird Watcher 16: 309–326. (153 Perry St., Fairfield, Vic. 3078, Australia.)—Annotated list of 220 species with demonstrated changes in status for 21 of them.—I.D.E.
- TURBOTT, E. G., & B. D. BELL. 1995. **A census of Spotted Shags (*Stictocarbo punctatus punctatus*) breeding on Banks Peninsula [New Zealand] in 1960.** Notornis 42: 197–202. (23 Cathedral Pl., Auckland, NZ.)—Describe breeding distribution of about 10,000 pairs.—E.O.M.

DISTRIBUTION—EUROPE

- ALEMAN, Y. 1996. **[Purple Gallinule, a new breeding bird for France.]** Ornithos 3: 176–177. (15 rue des Abeilles, 66240 Saint-Estève, France.)—*Porphyrio porphyrio* breeding in 1996 at étang du Canet, near Perpignan; 3 pairs reared 7 young. (French, Engl. summ.)—G.O.
- ANDREOTTI, A., & G. L. ROSSI. 1995. **[The avifauna nesting on Ritano island (Saluggia-VC)].** Riv. Piem. St. Nat. 16: 221–231. (ENEA Div. Biol. Ambiente Cons. Nat., C.R. Brasimone, 40043 Camugnano, BO, Italy.)—Breeding bird survey in a river island in NW Italy. (Italian, Engl. summ.)—F.P.
- ANDRZEJCZYK, A., & M. STAJSZCZYK. 1996. **[First record of the Ring-necked Duck (*Aythya collaris*) in Poland.]** Notatki Ornitol. 37: 319–320. (c/o Notatki Ornitol., Katedra Zoologii Leńskiej i Zowietwa SGGW, Rakowiecka 26/30, 02 528 Warszawa, Poland.) (Polish, Engl. summ.)
- ARROYO, B. 1996. **A possible case of polyandry in Montagu's Harrier.** J. Raptor Res. 30: 100–102. (EGI, Dept. Zool., S. Parks Rd., 0X1 3PS Oxford, UK.)—2 male *Circus pygargus* repeatedly provided food to 1 female and brood.—J.P.S.
- BEEVERS, M. A. 1994. **The Corn Bunting in Derbyshire [England]: a declining species or merely under-recorded?** Derbyshire Bird Rept. 1993: 100–107. (11 Chatsworth Close, Bolsover, Derbyshire, UK.)—*Milaria calandra*.
- BELLARD, J., ET AL. 1996. **[Peregrine Falcon breeding along French Channel coasts.]** Ornithos 3: 197. (5 rue de la Poste, 80290 Ailly le Haut Clocher, France.)—*Falco peregrinus* bred again after 30 years absence. (French, Engl. summ.)—G.O.
- BIADUN, W. 1996. **[Avifauna of the allotment gardens in Lublin.]** Notatki Ornitol. 37: 247–258. (Lotnicza 8/16, 20 322 Lublin, Poland.)—E. Poland, bird community censuses over 4 yrs. (Polish, Engl. summ.)—T.W.
- BIDDAU, L. 1995. **[Wintering waterfowl in the Candia Lake (Piedmont-Italy)].** Riv. Piem. St. Nat. 16:233–251. (Dipto. Biol. Anim., Università di Torino, via

- Accademia Albertina, 17 Torino, Italy.)—Yearly report (1981-1994) of wintering *Anas platyrhynchos*, *Fulica atra*, *Podiceps cristatus*, *Botaurus stellaris*. (Italian, Engl. summ.)—F.P.
- DALMAU, J., & R. COLAS. 1996. [Dotterel breeding in French Pyrénées in 1996.] *Ornithos* 3: 196. (16 rue Blondel, 66000 Perpignan, France.)—1 to 10 pairs of *Charadrius morinellus* bred regularly since 1982. (French, Engl. summ.)—G.O.
- DERMAIN, F. ET AL. 1996. [Breeding of the Gannet in harbours of the French Mediterranean coast.] *Ornithos* 3: 187-189. (13 Bd du Redon, 13009 Marseille, France.)—*Morus bassanus*; one egg hatched in 1996 on a boat in an harbour. (French, Engl. summ.)—G.O.
- DUBOIS, P. J., & C. H. N. 1996. [Rare birds in France in 1995.] *Ornithos* 3: 153-175. (C.H.N., L.P.O., la Corderie Royale, B.P. 263, 17305 Rochefort Cedex, France.)—First French record (in 1994) of *Pluvialis fulva* and second for *Podilymbus podiceps*, *Calidris mauri* and *Parula americana*. (French, Engl. summ.)—G.O.
- DYRCZ, A., & R. MIKUSEK. 1996. [Breeding birds of the Stolowe Mountains as part of Sudety Mountains and bird protection in Stolowe Mountains National Park.] *Szczeliniec* 1: 215-219. (Mikusek Park Narodowy Gorstolowych, ul. Sloneczna 31, 57-350 Kudowa Zdrój, Poland.)—98 breeding species at this site in W. Poland including *Bubo bubo*, *Glaucidium passerinum*, *Aegolius funereus*, *Ciconia nigra*, *Bonasa bonasa*, *Crex crex*, and *Carduelis flammea*. (Polish, Engl. summ.)—J.P.
- F. I. R. 1996. [Successful breeding of the Black Vulture in France.] *Ornithos* 3: 198-199. (11 av. du Chateau de Malmaison, 92500 Rueil-Malmaison, France.)—Reintroduction scheme of *Aegypius monachus*. (French, Engl. summ.)—G.O.
- FOSTER, B. 1994. A survey of breeding Dippers *Cinclus cinclus* in Derbyshire [England] in 1993. *Derbyshire Bird Rept.* 1993: 92-98. (20 Hardwick St., Tibshelf, Derbyshire DE55 5QH, UK.)
- GOC, M. 1996. [First record of the Paddyfield warbler (*Acrocephalus agricola*) in Poland.] *Notatki Ornitol.* 37: 323-325. (Katedra Ekologii i Zoologii Krzgowców UG, Al. Legionów 9, 80 441 Gdansk, Poland.) (Polish, Engl. summ.)
- GWIAZDA, R. 1996. [Breeding avifauna of the Dobczyce Reservoir in the first years of its existence after its filling.] *Chronmy Przyr.* Ojczysta 52: 64-73. (Karol Starmach Inst. Freshwater Biol., PAS, Slawkowska 17, 31-016 Kraków, Poland.)—19 breeding species at this site in S Poland; *Anas clypeata*, *Anas strepera*, *Tringa totanus* and *Podiceps cristatus* most common. (Polish, Engl. summ.)—J.P.
- KAPANEN, M. 1996. Finland next?—White-throated Robin. *Alula* 2: 150-151. (Alula, P.O. Box 85, FIN-02271 Espoo, Finland.)—Distribution and identification of *Irania gutturalis*. (Finnish, Engl. summ.)—E.H.
- KAYSER, Y., ET AL. 1996. [Glossy Ibis breeding in the Camargue in 1996.] *Ornithos* 3: 200-201. (Stn. biol. Tour du Valat, le Sambuc, 13200 Arles, France.)—Four pairs of *Plegadis falcinellus*. (French, Engl. summ.)—G.O.
- KRALJ, J., & V. TUTIS. 1996. Samples of birds from Croatia in the ornithological collection of the Natural History Museum in Vienna. *Nat. Croat.* 5: 25-51. (Inst. Ornithol., Ilirski trg 9/2, HR-10000 Zagreb, Croatia.)—180 species collected from 1849-1976. *Cursorius cursor* only record for State. Records of *Pelecanus crispus*, *Aquila heliaca*, *Hieraetus pennatus* confirm former breeding.—T.M.
- MEISSNER, W., & M. KOZAKIEWICZ. 1996. [Wintering of waterfowl on the Bay of Gdansk (Polish Baltic Coast) in the 1995/1996.] *Notatki Ornitol.* 37: 351-354. (Katedra Ekologii i Zoologii Krzgowców UG, Al. Legionów 9, 80 441 Gdansk, Poland.) (Polish, Engl. summ.)
- MIKUSEK, R. 1996. [Owls of the Stolowe Mountains National Park—preliminary results.] *Szczeliniec* 1: 221-227. (Park Narodowy Gor Stolowych, ul. Sloneczna 31, 57-350 Kudowa Zdroj, Poland.)—Data of breeding density of *Bubo bubo*, *Glaucidium passerinum*, *Aegolius funereus*, *Strix aluco*, and *Asio otus* at a site in W. Poland. (Polish, Engl. summ.)—J.P.
- MURRAY, R., ED. 1996. *Scottish Bird Report 1994*. *Scottish Bird Report* 27: 1-68. (4 Bellfield Cres., Edleston, Borders EH45 8RQ, UK.)
- O'SULLIVAN, D. 1996. The Long-toed Stint in County Cork—the first for Ireland. *Birding World* 9: 224-225. (no address given.)—*Calidris subminuta*.
- PERTHUIS, A. 1996. [Birds of France: Middle Spotted Woodpecker *Dendrocopos medius*.] *Ornithos* 3: 194-195. (Maison forestière, 41000 Saint-Sulpice, France.) (French)
- PEYRE, O., & G. OLIOSO. 1996. [First breeding of the Ring Ouzel *Turdus torquatus* in the Mont Ventoux, Vaucluse, south-east France.] *Faune de Provence* 17: 113. (le Puy, 84210 Pernes-les-Fontains, France.)—August 1996. (French.)
- SAMTMANN, S., & L. SCHMITTER. 1996. [Tengmalm's Owl (*Aegolius funereus*) in Haguenau forest, Alsace, France.] *Schoeniclus* 1: 35-36. (Stn. ornithol. de Munchhausen, BP 14, 67660 Betschdorf, France.) (French)
- SAUROLA, P. 1997. Finnish birds 4. Ural Owl. *Alula* 3: 4-5. (c/o Alula, P. O. Box 85, FIN-02271 Espoo, Finland.)—Population numbers of *Strix uralensis* and how to find the species.—E.H.
- SIKORA, A., & Z. CERAN. 1996. [Invasion of the Tengmalm's Owl (*Aegolius funereus*) in some areas of northern Poland in 1996.] *Notatki Ornitol.* 37: 333-337. (Stacja Ornitologiczna IE PAN, Nadwiulanska 108, 80 680 Gdansk, Poland.) (Polish, Engl. summ.)
- SIKORA, A. 1996. [First record of the Pied Wheatear (*Oenanthe pleschanka*) in Poland.] *Notatki Ornitol.* 37: 321-323. (Stacja Ornitologiczna IE PAN, Nad-

- wiślńska 108, 80 680 Gdansk, Poland.) (Polish, Engl. summ.)
- SIKORA, A. 1996. [Frequency of the Lesser Black-backed Gull (*Larus fuscus*) wintering in Poland.] Notatki Ornitol. 37: 338–342. (Stacja Ornitologiczna IE PAN, Nadwiślńska 108, 80 680 Gdansk, Poland.)—Probably frequently misidentified *Larus marinus*. (Polish, Engl. summ.)—T.W.
- SIKORA, A. 1996. [Invasion of the Red-footed Falcon (*Falco vespertinus*) in the Pobrzeze Gdanskie coastland (S Baltic) in the autumn of 1996.] Notatki Ornitol. 37: 329–333. (Stacja Ornitologiczna IE PAN, Nadwiślńska 108, 80 680 Gdansk, Poland.) (Polish, Engl. summ.)
- STOJ, M. 1996. [Birds of prey and the Black Stork in the Beskid Sadecki Mountains.] Chronmy Przyr. Ojczyzna 52: 38–44. (I Liceum Ogólnokształcące Im. Karola Stanisława Leszczyńskiego, Jasło, Poland.)—*Ciconia nigra*, *Aquila pomarina* and 8 other species of predatory birds in SW Poland. (Polish, Engl. summ.)—J.P.
- STIPCEVIC, M. 1996. A contribution to the Croatian list of rare and scarce birds recorded from 1985–1995. Nat. Croat. 5: 53–81. (Josipa Relje Vladovica 29, HR-23000 Zadar, Croatia.)—37 species recorded; *Glareola nordmanni* 1st State record; *Porzana pusilla*, *Carpodacus erythrinus* 2nd State records.—T.M.
- TRYJANOWSKI, P. 1996. [A new record of the Eyebrowed Thrush (*Turdus obscurus*) in Poland.] Notatki Ornitol. 37: 326–327. (Zakład Biologii i Ekologii Ptaków UAM, Fredry 10, 61 701 Poznan, Poland.)—First in 20th century. (Polish, Engl. summ.)—T.W.
- VASAMIES, H. 1997. Little Whimbrel at Åland. Alula 3: 38–40. (c/o Alula, P. O. Box 5, FIN-02271 Espoo, Finland.)—First record of *Numenius minutus* in Finland.—E.H.
- ZIELINSKI, M., & S. STUDZINSKI. 1996. [Avifauna of the marshland Blota Rakutowskie near Wloclawek (Central Poland).] Notatki Ornitol. 37: 259–300. (Stacja Ornitologiczna IE PAN, Nadwiślńska 108, 80 680 Gdansk, Poland.) (Polish, Engl. summ.)
- ZOTIER, R., ET AL. 1996. [Status of the Gannet *Morus bassanus* in Provence, South-East France.] Faune de Provence 17: 91–94. (20 chemin de Sassy, 06530 Peymenade, France.)—After several attempts, a pair bred on a boat in Bandol harbor. (French, Engl. summ.)—G.O.
- WA 6000, Australia.)—Distribution, abundance and habitat preference of 83 species, including new records, obtained during surveys in 1990 and 1993.—M.G.B.
- JOHNSTONE, R. E., ET AL. 1996. The birds of Sumbawa, Moyo and Sangeang Islands, Nusa Tenggara, Indonesia. Rec. West. Aust. Mus. 18: 157–178. (WA Mus., Francis St., Perth, WA 6000, Australia.)—Records 172 species on expeditions in 1988 and 1993.—M.G.B.
- SIBUEA, T. 1996. Ducklings of White-winged Duck in Indonesia. TWSG News 9: 24. (Wetlands Int.-Indonesian Prog., P.O. Box 254/Boo, Bogor 16002, Indonesia.)—*Cairina scutulata*, two reports of ducklings caught by fishermen in Sumatra.—F.P.
- VIJAYAN, L., & R. SAKTHIVEL. 1996. Surveys of Andaman Teal in winter 1995/96. TWSG News 9: 25–27. (Salim Ali Ctr. Ornithol. & Nat. Hist., Kalampalayan P.O., Coimbatore 641010, India.)—*Anas gibberifrons albugularis*.

DISTRIBUTION—NEARCTIC

- AUCHU, C., & C. GIRARD. 1996. A possible White-faced Storm-Petrel. Birders J. 5: 236–237. (414, 7e rue, C.P. 981, La Pocatiere, PQ G0R 1Z0, Can.)—*Pelagodroma marina* sighted Sep 1996 near île aux Basques, PQ; 1st report for Canada.—A.L.L.
- BAKER, R., & J. HINES. 1996. Black Tern sightings in Minnesota 1990–1995. Loon 68: 136–140. (Dept. Nat. Resour., 500 Lafayette Rd., St. Paul, MN 55155, USA.)—Summary of statewide distribution and confirmed nesting sites (63) of *Chlidonias niger*.—D.L.E.
- BARDON, K. 1996. Minnesota's first Glaucous-winged Gull. Loon 68: 3–13. (1430 100th Ave. NW #212, Coon Rapids, MN 55433, USA.)—*Larus glaucescens*.
- BARKER, K. 1996. Recent records for Harris' Hawks in Oklahoma. Bull. Oklahoma Ornithol. Soc. 29: 21–22. (6500 N. Grand Blvd., Unit 169, Oklahoma City, OK 73116, USA.)—Summarizes sightings of *Parabuteo unicinctus*, a rare to uncommon winter visitor in Oklahoma, from 1993 to 1996.—R.B.C.
- BASTAJA, D. 1996. An Acorn Woodpecker in Maple Ridge, B.C. Birders J. 5: 206–207. (22182 River Bend, Maple Ridge, BC V2X 9C1, Can.)—*Melanerpes formicivorus*, Jun 1996. 1st sighting for Canada.—A.L.L.
- BELL, P., M. MONROE, & B. PALMER-BALL, JR. 1996. Tricolored Heron at Louisville. Kentucky Warbler 72: 88–89. (306 Fairlawn Rd., Louisville, KY 40207, USA.)—*Egretta tricolor* seen and photographed May 1996, 1st Kentucky record documented with photographs; 2 previous sight records.—R.B.C.
- BREEN, T. F., ET AL. 1995. Southeastern American Kestrel nests in Bulloch, Evans and Columbia counties, Georgia. Oriole 60: 33–36. (Dept. Biol., Georgia South. Univ., Statesboro, GA 30460-8042,

DISTRIBUTION—INDOMALAYAN

- HAN, S. 1996. White-winged Duck in Thamanthi Wildlife Sanctuary, Myanmar. TWSG News 9: 22–23. (Wildl. & Sanctuaries Directorate, D-35, Kyaik Waing Pagoda Rd, Mayangon P.O. 11062, Yangon, Myanmar.)—*Cairina scutulata*.
- JOHNSTONE, R. E., & P. JEPSON. 1996. The birds of Roti Island, Nusa Tenggara, Indonesia. West. Aust. Nat. 21: 23–35. (WA Mus., Francis St., Perth,

- USA.)—*Falco sparverius paulus* population increase and range expansion in southern Georgia.—R.B.C.
- BRODIN, A. 1996. **Black-tailed Godwit in Ontario.** *Birders J.* 5: 176–177. (Stockholm Univ., Dept. Zool., S-106 91, Stockholm, Sweden.)—Sight report of *Limosa limosa*, Sep 1995 at Port Perry; 1st report for ON.—A.L.L.
- BURGER, A. E., H. KNECHTEL, & D. BERTRAM. 1996. **Vagrant Black-backed Wagtail at Triangle Island: the second record for British Columbia.** *Birders J.* 5: 303–304. (Biol. Dept., Univ. Victoria, Victoria, BC V8W 3N5, Can.)—Sight report of a *Motacilla lugens* April–May 1996.—A.L.L.
- CHAFFIN, D. C. 1995. **Northern Saw-whet Owl heard in NE Georgia.** *Oriole* 60: 51–52. (1606 Everhart Dr., NW, Cleveland, TN 37311-1523, USA.)—*Aegolius acadicus* heard 26 Apr 1995 is latest record for state by more than a month.—R.B.C.
- COHRS, D. 1995. **Dark-eyed Junco on Jekyll Island in mid-May.** *Oriole* 60: 55. (P.O. Box 1908, Darien, GA 31305, USA.)—Sighting of *Junco hyemalis* 13 May 1995 is latest date for Georgia.—R.B.C.
- CRAWFORD, R. L. 1995. **Eurasian Collared Doves in southwest Georgia.** *Oriole* 60: 50–51. (208 Junius St., Thomasville, GA 31792, USA.)—Sightings of *Streptopelia decaocto* in Lowndes and Thomas counties in 1995 and details on 1st specimen for state from Grady County, Jan 1988.—R.B.C.
- CURRY, B. 1996. **Hurricane Fran: September 1996.** *Birders J.* 5: 283–297. (92 Holstein Dr., Ancaster, ON L9G 2S7, Can.)—At least 5 species of birds carried by hurricane to southern Ontario and sighted Sep–Oct 1996; included 22 specimens of *Pterodroma hasitata* and 2 specimens of *Sterna fuscata* in ON and western NY.—A.L.L.
- DALMAS, J. 1997. **The 1996 Madison County [Virginia] foray.** *Raven* 68: 3–27. (527 Rainbow Forest Dr., Lynchburg, VA 24502, USA.)—4–9 June survey also included parts of neighboring counties and recorded 137 species, 128 of which were thought or shown to be breeding. Marked changes since the 1950's include the decline of some warblers (*Dendroica caerulescens*, *Dendroica fusca*, *Dendroica virens*) and the increase of others (*Dendroica cerulea*, *Setophaga ruticilla*, *Helmitheros vermivorus*).—R.B.C.
- DAVIS, W. H., & P. J. KALISZ. 1994. **Tree Swallow, *Tachycineta bicolor*, nesting in the Bluegrass.** *Kentucky Warbler* 70: 76–75. (Sch. Biol. Sci., Univ. Kentucky, Lexington, KY 40546, USA.)—Range is expanding in Kentucky apparently owing largely to use of bluebird boxes.—R.B.C.
- DAVIS, W. M., & G. KNIGHT. 1989. **First Mississippi record of the Mountain Plover.** *Mississippi Kite* 19: 2–3. (308 Lewis Ln., Oxford, MS 38655, USA.)—*Charadrius montanus*.
- DUBKE, L. H. 1993. **Anhinga over Amnicola Marsh, Hamilton County, Tennessee.** *Migrant* 64: 58. (8139 Roy Ln., Ootewah, TN 37363, USA.)—Female *Anhinga anhinga* seen 11 Oct 1987 is the 1st record for eastern Tennessee.—R.B.C.
- DUNHAM, S., ET AL. 1996. **Breeding range and conservation of Flammulated Owls (*Otus flammeolus*) in Nevada.** *J. Raptor Res.* 30: 189–193. (Dept. Biol./314, Univ. Nevada, Reno, NV 89577, USA.)—Map of known localities and potential habitat based on 4 years of summer surveys and other published/unpublished records.—J.P.S.
- ECKERT, C. 1996. **Wood Sandpiper—a Yukon first at Herschel Island.** *Birders J.* 5: 247–251. (1402 Elm St., Whitehorse, YT Y1A 4B6, Can.)—Description and photograph of *Tringa glareola* 9 Aug 1996; 1st report for YT and 2nd for Canada. Description and photograph of *Xanthocephalus xanthocephalus* 12 Aug 1996 provide 1st report for YT.—A.L.L.
- ECKERT, K. R. 1996. **Birding by hindsight. A second look at first state records (part 2).** *Loon* 68: 232–237. (8255 Congdon Blvd., Duluth, MN 55804, USA.)
- ECKERT, K. R. 1996. **Some additional comments on the Rock Ptarmigan in Grand Marais [Minnesota].** *Loon* 68: 80–81. (8255 Congdon Blvd., Duluth, MN 55804, USA.)—*Lagopus mutus*, 1st state record; see also *Loon* 68: 79.—D.L.E.
- ETCHEBERRY, R. 1996. **The [1996] spring migration in St.-Pierre & Miquelon.** *Birders J.* 5: 152–153. (BP 328, St.-Pierre et Miquelon, France.)
- ETCHEBERRY, R. 1996. **The 1996 nesting season in St.-Pierre & Miquelon.** *Birders J.* 5: 256. (BP 328, St.-Pierre et Miquelon, France.)—Summary of bird sightings on islands near NF.—A.L.L.
- FISHER, R. A., JR. 1996. **A probable nest record of the Hooded Warbler in Catron County, New Mexico.** *New Mexico Ornithol. Soc. Bull.* 24: 81. (18 McMillen Rd., Silver City, NM 88061, USA.)—Sightings of pair of *Wilsonia citrina* during the summer of 1994 and a possible nest found in Nov are the basis for what may be the 1st nesting record for New Mexico.—R.B.C.
- FOURNIER, M. A., & J. E. HINES. 1996. **Second record and possible breeding of the Eurasian Wigeon, *Anas penelope*, in the District of Mackenzie, Northwest Territories.** *Can. Field-Nat.* 110: 336–337. (Can. Wildl. Serv., P.O. Box 637, Yellowknife, NT X1A 2N5, Can.)
- GELVIN-INNVAER, L. A. 1995. **New Delaware nesting locations for Tricolored Herons and Great Black-backed Gulls.** *Delmarva Ornithol.* 27: 6. (Nongame Endang. Species Progr., DE Div. Fish. Wildl., 89 Kings Hwy., Dover DE 19903, USA.)—*Egretta tricolor* in the eastern Rehoboth Bay marshes and *Larus marinus* on Big Reedy Island and an island in the Narrows in Herring Creek, are only 2nd and 2nd and 3rd known nesting areas in Delaware, respectively.—R.B.C.
- GOODWIN, C. 1996. **Finding birds near Calgary [Alberta] Airport.** *Birders J.* 5: 154–155. (1 Queen St., Ste. 401, Cobourg, ON K9A 1M8, Can.)

- GUBANYI, J. 1996. **1994 (Sixth) report of the NOU Records Committee.** *Nebraska Bird Rev.* 64: 38–42. (Concordia Coll., 800 N. Columbia, Seward, NE 68434, USA.)—Accepted records include the 1st records for Nebraska for *Zenaida asiatica* and *Parus gambeli*.—R.B.C.
- HECK, B. A. 1996. **The Red Crossbill invasion of Oklahoma during the summer of 1996.** *Bull. Oklahoma Ornithol. Soc.* 29: 25–27. (Little River NWR, P.O. Box 340, Broken Bow, OK 73728, USA.)—*Loxia curvirostra* with some data included for nearby states.—R.B.C.
- HECKSCHER, C. M. 1996. **Black-throated Green Warbler: a former Delaware resident?** *Delmarva Ornithol.* 28: 5–6. (Delaware Nat. Her. Progr., 4876 Haypoint Landing Rd., Smyrna, DE 19977, USA.)—Habitat similar to that used by *Dendroica virens* in nearby Maryland suggests possible presence.—R.B.C.
- HODGES, M. F., JR. (ED.) 1988. **Birds around the state: December 1987–November 1988.** *Mississippi Kite* 18: 11–37. (Dept. Biol. Sci., Mississippi State Univ., Mississippi State, MS 39762, USA.)—1st State records for *Larus glaucooides*, *Myiarchus cinerascens*; 2nd State records for *Chen rossii*, *Philomachus pugnax*, *Xema sabini*, *Archilochus alexandri*, *Amazilia yucatanensis*.—T.M.
- HODGES, M. F., T. SCHIEFER, & M. SCHIEFER. 1995. **First documented record of Little Gull in Georgia.** *Oriole* 60: 37–38. (P.O. Box 79394, Atlanta, GA 30357-7394, USA.)—*Larus minutus* seen May 1995 on Jekyll Island; photos.—R.B.C.
- HOFFMAN, K. 1996. **A Rock Ptarmigan at Grand Marais [Minnesota].** *Loon* 68: 79. (HC 86, Box 199, Grand Marais, MN 55604, USA.)—*Lagopus mutus*, 1st state record; see also *Loon* 68: 80–81.—D.L.E.
- HOLT, D. W., K. HICKS, & W. D. NORTON. 1992. **First nest record for the Barn Owl in Montana.** *Prairie Nat.* 24: 121–122. (Owl Res. Inst., P.O. Box 8335, Missoula, MT 59807, USA.)—*Tyto alba*.
- HORWITZ, J. L. 1996. **Three territorial Prairie Warblers in Anoka County [Minnesota].** *Loon* 68: 183–186. (1700 Silver Lake Rd., New Brighton, MN 55112, USA.)—3 singing male *Dendroica discolor* at a site where 1 was heard in 1994.—D.L.E.
- JACKSON, J. A. 1988. **The history of Ivory-billed Woodpeckers in Mississippi.** *Mississippi Kite* 18: 3–10. (Dept. Biol. Sci., Mississippi State Univ., Mississippi State, MS 39762, USA.)—*Campephilus principalis*.
- JONES, C., & M. HOLDER. 1996. **Bar-tailed and Black-tailed Godwits in Canada.** *Birders J.* 5: 184–193. (192 Alma St., Oshawa, ON L1G 2C2, Can.)—Most reports of *Limosa lapponica* are from BC in autumn; most reports of *Limosa limosa* are from ON, PQ, and NF in spring. Identification summarized.—A.L.L.
- JORGENSEN, J. 1996. **A review of the status of *Limnodromus griseus*, the Short-billed Dowitcher, in Nebraska.** *Nebraska Bird Rev.* 64: 74–78. (1218 Jackson St., Blair, NE 68008, USA.)
- KAIN, T. 1996. **1996 report of the Virginia Avian Records Committee.** *Raven* 67: 101–106. (7083 Caffee Creek Ln., Gloucester, VA 23061, USA.)—Accepted 1st State records of *Oceanodroma castro*, *Buteo regalis*, *Charadrius alexandrinus*, *Uria aalge*, *Pyrocephalus rubinus*, and *Carduelis hornemanni*. Accepted 1st Piedmont record of *Larus minutus*; *Pagophila eburnea*, *Aegolius funereus*, and *Tyrannus vociferans* removed from the Virginia Checklist because of inadequately documented records.—R.B.C.
- KENZIE, R. A. 1996. **Acorn Woodpecker—a first for Canada?** *Birders J.* 5: 205–206. (202-2748 Lougheed Hwy., Port Coquitlam, BC V3B 6P2, Can.)—Description of *Melanerpes formicivorus* at Maple Ridge, BC, Jun 1996, 1st sighting for Canada.—A.L.L.
- KNIGHT, R. L. 1993. **Report of the Tennessee Bird Records Committee.** *Migrant* 64: 53–57. (804 North Hills Dr., Johnson City, TN 37604, USA.)—Covers period 1987–1993 and accepts records for *Gavia pacifica* (1st state record), *Fregata magnificens* (1st & 2nd), *Ardea herodias occidentalis* (1st), *Plegadis falcinellus* (3rd), *Plegadis chihii* (1st unequivocal), *Ajaia ajaja* (2nd), *Elanus leucurus* (1st & 2nd), *Charadrius alexandrinus* (2nd), *Charadrius wilsonia* (1st accepted), *Numenius americanus* (2nd), *Calidris acuminata* (1st), *Philomachus pugnax* (2nd), *Stercorarius pomarinus* (2nd), *Larus ridibundus* (2nd), *Larus fuscus* (1st & 2nd), *Xema sabini* (1st), *Sterna maxima* (1st), *Sterna paradisaea* (1st), *Archilochus alexandri* (1st), *Ixoreus naevius* (1st & 2nd), *Pinicola enucleator* (1st).—R.B.C.
- LINGLE, G. R. 1996. **Another Common Crane in Nebraska with a summary of North American records.** *Nebraska Bird Rev.* 64: 80–82. (Platte R. Whooping Crane Maintenance Trust, 2550 N. Diers Ave., Suite H, Grand Island, NE 68803, USA.)—*Grus grus* seen Mar 1996 is 4th state record; a table summarizes these and other records from North America.—R.B.C.
- MCKENZIE, P. 1996. **First breeding record of Great-tailed Grackle (*Quiscalus mexicanus*) east of western Missouri.** *Bluebird* 63(3): 33–35. (No address given.)—Adult ♀ feeding 4 juveniles 9 Jul 1996 and multiple females with young 21 Jul in southern Boone County; extends known breeding range ca. 70 mi eastward.—R.B.C.
- MCLAREN, I. 1996. **A reddish-legged Purple Gallinule.** *Birders J.* 5: 22–24. (Biol. Dept., Dalhousie Univ., Halifax, NS B3H 4J1, Can.)—Specimen of *Porphyryla martinica*, 5 Feb 1995, Sable Is., NS, with unusual leg color. Other characters exclude *Porphyryla alleni*.—A.L.L.
- MCLAREN, I. 1996. **Acadian Flycatcher in Nova Scotia.** *Birders J.* 5: 194–195. (1755 Cambridge St., Halifax, NS B3H 4A8, Can.)—Photographs and description of *Empidonax vireescens*, 26 May 1995 at Westport, Brier Is.; 1st report for NS.—A.L.L.
- MCNAIR, D. B. 1995. **Refutation of purported histor-**

- ical breeding records of the Black-billed Cuckoo on the Georgia and South Carolina coasts.** Oriole 60: 42–44. (Tall Timbers Res. Stn., Rt. 1, Box 678, Tallahassee, FL 32312-9712, USA.)—*Coccyzus erythrophthalmus*.
- MOORE, H. 1988. **Nesting of White Ibis in Warren County, Mississippi.** Mississippi Kite 18: 1–2. (1 Lakeside Dr., Vicksburg, MS 39180, USA.)—*Eudocimus albus*.
- OBERLE, M. W., & D. M. FORSYTHE. 1995. **Possible breeding by Red-breasted Nuthatch and Golden-crowned Kinglet in Georgia and South Carolina.** Oriole 60: 52–55. (2690 Briarlake Woods Way, Atlanta, GA 30345, USA.)—Pair of *Sitta canadensis* and singing ♂ *Regulus satrapa* at Burrell's Ford in Georgia 18 Jun 1995 and *Regulus satrapa* feeding fledglings at the Walhalla Fish Hatchery in South Carolina the same date.—R.B.C.
- PALMER-BALL, B., JR. 1994. **Gull-billed Tern at the Falls of the Ohio.** Kentucky Warbler 70: 86–87. (8027 Old Westport Rd., Louisville, KY 40222, USA.)—*Sterna nilotica* seen 27 Aug 1994 is 1st fully documented record for Kentucky.—R.B.C.
- PALMER-BALL, B., JR., & R. KLAPHEKE. 1994. **First Kentucky record for Curlew Sandpiper.** Kentucky Warbler 70: 87–88. (8027 Old Westport Rd., Louisville, KY 40222, USA.)—Adult *Calidris ferruginea* seen and photographed 9–11 Jul 1994 at McElroy Lake.—R.B.C.
- PAPISH, R., J. L. MAYS, & D. BREWER. 1997. **Orange-billed Nightingale-Thrush. First record for Texas and the U.S.** Birding 29: 128–130. (Laguna Atascosa NWR, Box 450, Rio Hondo, TX 78583, USA.)—*Catharus aurantiirostris* seen, captured and photographed at the refuge 8 Apr 1996; 3 color photos.—R.B.C.
- PATTEN, M. A., & C. A. MARANTZ. 1996. **Implications of vagrant southeastern vireos and warblers in California.** Auk 113: 911–923. (Dept. Biol., Univ. California, Riverside, CA 92521, USA.)—Range expansion or anomalous weather conditions are responsible for repeated influx of 7 species in past 20 years: *Vireo griseus*, *Vireo flavifrons*, *Parula americana*, *Dendroica dominica*, *Helminthos vermivorus*, *Oporornis formosus*, *Wilsonia citrina*.—D.C.D.
- ROBBINS, M. 1997. **Ninth Annual Report of the Missouri Bird Records Committee.** Bluebird 64(1): 12–19. (No address given.)—Accepted records include 1st state records for *Somateria mollissima*, *Charadrius wilsonia*, *Sterna fuscata*, *Colibri thalassinus*, plus 1st winter record for *Vireo griseus* and several early and late migration dates.—R.B.C.
- ROTHE, T. C. 1996. **Update on Alaska-Pacific coast geese.** TWSG News 9: 12–16. (Alaska Dept. Fish & Game, 333 Raspberry Rd., Anchorage, AK 99518, USA.)—Current status of Tule White-fronted Goose *Anser albifrons gambeli*, Aleutian Canada Goose *Branta canadensis leucopareia*, Cackling Canada Goose *Branta canadensis minima* and Dusky Canada Goose *Branta canadensis occidentalis*.—F.P.
- RUCKDESCHER, C. 1995. **First specimen of a White-tailed Tropicbird from Georgia.** Oriole 60: 39–41. (Cumberland Is. Mus., P.O. Box 796, St. Marys, GA 31558, USA.)—Immature *Phaethon lepturus* found dead Aug 1995 on Cumberland Island; 2 photos.—R.B.C.
- SHEFFIELD, S. R. 1996. **Recent records for the Barn Owl in northcentral Oklahoma.** Bull. Oklahoma Ornithol. Soc. 29: 22–23. (Dept. Zool., Oklahoma State Univ., Stillwater, OK 73078, USA.)—*Tyto alba* formerly the most abundant raptor in that part of the state but now much fewer.—R.B.C.
- SMITH, M. A. 1996. **Shorebird studies at the Port of Wilmington, Delaware.** Delmarva Ornithol. 28: 7–14. (2 Hillcrest Ave., Wilmington, DE 19809, USA.)—Annotated list of 29 shorebirds plus notes on other waterbirds and some landbirds.—R.B.C.
- SMOUT, E. 1996. **London's [ON] Peregrine Falcons—Canada's most southerly nesting record?** Birders J. 5: 237–238. (Project Peregrine [no further address given].)—*Falco peregrinus*; fledged 24 Jul 1996.—A.L.L.
- THRAILKILL, J. A., & L. S. ANDREWS. 1996. **Presence of breeding Northern Goshawks in the Coast Range of Oregon.** J. Raptor Res. 30: 248–249. (Oregon Coop. Wildl. Res. Unit, Dept. Fish. Wildl., Oregon State Univ., Corvallis, OR 97331, USA.)—1st confirmed *Accipiter gentilis* nests in region, with evidence of repeated nesting at locale.—J.P.S.
- TOMER, J. S., R. B. CLAPP, & J. C. HOFFMAN. 1996. ***Fregata minor*, Great Frigatebird, in Oklahoma.** Bull. Oklahoma Ornithol. Soc. 29: 34–35. (5911 E. 46th St., Tulsa, OK 74135, USA.)—Reexamination of specimen taken 3 Nov 1975 confirms its identity.—R.B.C.
- TOUPS, J. A., ET AL. 1989. **First sighting of Audubon's Shearwater in Mississippi.** Mississippi Kite 19: 9–11. (4 Hartford Pl., Gulfport, MS 39507, USA.)—*Puffinus lherminieri*.
- TYLER, J. D., & F. J. BECHTOLD. 1996. **Statuses of four avian species in southwestern Oklahoma.** Bull. Oklahoma Ornithol. Soc. 29: 27–34. (Little River NWR, P.O. Box 340, Broken Bow, OK 73728, USA.)—*Tyrannus forficatus*, *Sialia currucoides*, *Lanius ludovicianus*, *Aimophila cassinii*.
- VILLARD, M.-A. 1991. **[Forest birds from the Gatineau Park (Quebec): a regional perspective.]** Québec Oiseaux 2(4): 14–18. (Dept. Biol., Univ. Moncton, Moncton, NB E1A 3E9, Can.)—(French.)
- WALKER, R. 1996. **Subspecies of Savannah Sparrow *Passerculus sandwichensis* in Atlantic Canada.** Birders J. 5: 136–141. (P.O. Box 126, Alma, NB E0A 1B0, Can.)—Identification and distribution.—A.L.L.
- WEIR, R. 1996. **Black-tailed Godwit at Kingston, Ontario.** Birders J. 5: 179–180. (294 Elmwood St., Kingston, ON K7M 2Y8, Can.)—Photographs and

- description of *Limosa limosa*, Dec 1995; 2nd report for ON.—A.L.L.
- WILLIAMS, B., ET AL. 1996. **The first Virginia record of the Snowy Plover.** Raven 67: 96–98. (154 Lakewood Dr., Williamsburg, VA 23185, USA.)—*Charadrius alexandrinus* seen 19 Jun 1995 on Cedar Island, Accomack County is only the 4th record on the Atlantic Coast N of Florida.—R.B.C.
- WILLIAMS, B. 1996. **Gray Kingbird near Kiptopeke State Park, Northampton County, Virginia.** Raven 67: 99–100. (154 Lakewood Dr., Williamsburg, VA 23185, USA.)—Immature *Tyrannus dominicensis* seen 12 Nov 1994; summary of 4 previous records.—R.B.C.
- WILLIAMS, S. O., III. 1996. **New Mexico bird records committee report for 1995.** New Mexico Ornithol. Soc. Bull. 24: 59–68. (65 Verano Loop, Santa Fe, NM 87505, USA.)—Accepted records include 1st confirmed records for state for *Plegadis falcinellus* and *Toxostoma longirostre*, as well as the 1st record since the late 1920's for *Empidonax fulvifrons*.—R.B.C.
- WORMINGTON, A. 1996. **Least Tern: second record for Ontario.** Birders J. 5: 48–49. (RR 1, Leamington, ON N8H 3V4, Can.)—Sight report of *Sterna antillarum*, 9 Jun 1993 at Wheatley; accepted by ON Bird Records Committee.—A.L.L.
- DISTRIBUTION—NEOTROPICAL**
- CAZIANI, S. M., & E. DERLINDATI. 1996. [*Fulica cornuta* in Pululos and nearby lagoons, arid puna of north-east Argentina.] TWSG News 9: 34–39. (Consejo de Investigación, Universidad Nacional de Salta, Buenos Aires 177, 4400 Salta, Argentina)—Horned Coot survey. (Spanish, Engl. summ.).—F.P.
- KIRWAN, G. M., R. S. R. WILLIAMS, & C. G. BRADSHAW. 1996. **West Indian Whistling Duck in the Dominican Republic.** TWSG News 9: 10–11. (6 Connaught Rd., Norwich NR2 3BP, UK.)—*Dendrocygna arborea*, recent observations and distribution in Hispaniola.—F.P.
- DISTRIBUTION—N. AFRICA & MIDDLE EAST**
- ANDREWS, I. J. 1996. **Sinai Rosefinch.** Sandgrouse 18 (2): 33–35. (39 Clayknowes Dr., Musselburgh, Midlothian EH21 6UW, UK.)—*Carpodacus synoicus*; brief review and color photos.—P.J.C.
- BAHA EL DIN, M., & S. BAHA EL DIN. 1996. **The first Oriental Pratincole *Glareola maldivarum* in Egypt.** Sandgrouse 18 (1): 64–65. (4 Ismail El Mazni St., Apt. 8, Heliopolis, Cairo, Egypt.)
- BAHA EL DIN, M. 1996. **The first Dusky Warbler *Phylloscopus fuscatus* in Egypt.** Sandgrouse 18 (1): 69. (4 Ismail El Mazni St., Apt. 8, Heliopolis, Cairo, Egypt.)
- DIERSCHKE, V., F. STUHMER, & T. STUHMER. 1996. **Records of Booted Warbler *Hippolais caligata* in north-eastern Turkey.** Sandgrouse 18 (2): 66–67. (Vogelwarte Hiddensee, 18565 Kloster, Germany.)
- DYMOND, J. N. 1996. **The Plain Nightjar *Caprimulgus inornatus* in Yemen.** Sandgrouse 17: 132–133. (Burgadies, S. Punds, Levenwick, Shetland ZE2 9HX, UK.)
- ERIKSEN, J. 1996. **The birds of Barr Al Hikman, Sultanate of Oman.** Sandgrouse 18 (2): 19–29. (Sultan Qaboos Univ., Coll. Sci., P.O. Box 36, Al Khod 123, Oman.)
- EVANS, M. I. 1996. **The first Alpine Accentor *Prunella collaris* in Jordan.** Sandgrouse 18 (2): 64. (Montrose, Llanddeiniol, Llanrhystud, Dyfed SY23 5AN, UK.)
- EVANS, M. I., & S. AL-MASHAQBAAH. 1996. **Did Lappet-faced Vulture *Torgos tracheliotos* formerly breed in Jordan?** Sandgrouse 18 (2): 61. (Montrose, Llanddeiniol, Llanrhystud, Dyfed SY23 5AN, UK.)
- FORSTEN, A. 1997. **Birding south-west Morocco.** Alula 3: 24–31. (c/o Alula, P. O. Box 5, FIN-02271 Espoo, Finland.)—Itinerary and birds recorded on one trip.—E.H.
- HOLLIDAY, S. T. 1995. **Report on the birds of the Strait of Gibraltar: 1989.** Alectoris 9: 1–44. (GONHS, P.O. Box 843, Gibraltar.)
- KHOURY, F. 1996. **Observations on the avifauna of the Azraq wetland, Jordan, June 1995.** Sandgrouse 18 (2): 52–57. (Dept. Ornithol., ZFMK, Adenauerallee 160, 53113 Bonn, Germany.)
- KIRAC, S. K., & C. KIRAC. 1996. **A short breeding bird survey of Kulu Golu, Central Anatolia, Turkey in May 1995.** Sandgrouse 18 (2): 58–60. (P. K.245 Yenisehir, 06443 Ankara, Turkey.)
- KIRWAN, G. M. 1996. **A new specimen record of Rustic Bunting *Emberiza rustica* from Turkey.** Sandgrouse 18 (2): 70–71. (6 Connaught Rd., Norwich NR2 3BP, UK.)
- MANNERS, G. R., & J. DIEKMANN. 1996. **Long-eared Owl *Asio otus* breeding in north-west Syria.** Sandgrouse 18 (2): 62. (ICARDA, P.O. Box 5466, Aleppo, Syria.)
- MARTINS, R., & G. M. KIRWAN. 1996. **Philby's and Arabian Partridges.** Sandgrouse 18 (1): 18–21. (6 Connaught Rd., Norwich NR2 3BP, UK.)—*Alectoris philbyi*, *Alectoris melanocephala*; review, photos.—P.J.C.
- MARTINS, R. P., ET AL. 1996. **The status of passerines in southern Yemen and records of the OSME survey in spring 1993.** Sandgrouse 17: 54–72. (6 Connaught Rd., Norwich NR2 3BP, UK.)
- MEADOWS, B. S., & P. SYMENS. 1996. **The first Woodlark *Lullula arborea* in Saudi Arabia.** Sandgrouse 18 (1): 66–67. (9 Old Hall Ln., Walton-on-the-Naze, Essex CO 14 8LE, UK.)
- MEININGER, P. L., ET AL. 1996. **Notes on the coastal birds of Libya, July 1993.** Sandgrouse 18 (1): 53–60. (Lisztaan 5, 4384 KM Vlissingen, Netherlands.)
- MINSHULL, B. C. 1996. **The first Pine Bunting *Emberiza leucocephalos* in Jordan.** Sandgrouse 18 (2): 69. (15/4 Echline Rigg, Bridgeview, S. Queensferry, West Lothian EH30 9XN, UK.)

- PAYNTER, D., T. AARVARK, & E. SULTANOV. 1996. **Winter counts of threatened species in Azerbaijan.** TWSG News 9: 39–42. (Wildfowl & Wetlands Trust, Slimbrige, Gloucester, GL7 2BT, UK.)—*Oxyura leucocephala*, *Anser erythropus*, *Marmaronetta angustirostris*.
- PEREZ, C. E. 1995. **Report on the birds of the Strait of Gibraltar: 1990.** Alectoris 9: 45–84. (GONHS, P.O. Box 843, Gibraltar.)
- PORTER, R. F., ET AL. 1996. **The status of non-passerines in southern Yemen and the records of the OSME survey in spring 1993.** Sandgrouse 17: 22–53. (BirdLife Int., Wellbrook Ct., Girton Rd., Cambridge CB3 0NA, UK.)
- PORTER, R. F., R. P. MARTINS, & F. STONE. 1996. **The Ornithological Society of the Middle East's survey of southern Yemen and Socotra, March-May 1993: an introduction.** Sandgrouse 17: 5–14. (BirdLife Int., Wellbrook Ct., Girton Rd., Cambridge CB3 0NA, UK.)—Includes list of bird vocalisations recorded.—P.J.C.
- RIETKERK, F., & T. WACHER. 1996. **The birds of Thumamah, Central Province, Saudi Arabia.** Sandgrouse 18 (1): 24–52. (Exec. Office European Endangered Spp. Progs., Amsterdam Zoo, Postbus 20164, 1000 HD Amsterdam, Netherlands.)
- ROSIER, A. 1996. **The first Wire-tailed Swallow *Hirundo smithii* in Egypt and the Western Palearctic.** Sandgrouse 18 (2): 63–64. (The Flat, Raleigh Hall, Fore St., Topshain, Devon EX3 0HU, UK.)
- SALAINA, W., & A. GRIEVE. 1996. **The Zaranik experience.** Sandgrouse 18 (1): 14–17. (Zaranik Prot. Area, P.O. Box 3, El Salam, El Arish, North Sinai, Egypt.)—Coastal area, N. Sinai, avifaunal highlights.—P.J.C.
- SORACE, A. 1996. **The first White-crowned Black Wheatear *Oenanthe leucopyga* in Turkey.** Sandgrouse 18 (1): 68. (Via Roberto Crippa 60, D/8, S. Giorgio di Acilia, 00125 Rome, Italy.)
- UHLIG, R., ET AL. 1996. **Winter status and distribution of Alpine Accentor *Prunella collaris* in Turkey.** Sandgrouse 18 (2): 65. (Sodener Str. 26, D-14197 Berlin, Germany.)
- NORTHERN ASIA & FAR EAST**
- HARPER, M. 1996. **Baikal Teal in Hovsgol, northern Mongolia.** TWSG News 9: 27–29. (36 Hollingbourne Rd., Herne Hill, London SE24 9ND, UK.)—*Anas formosa*.
- PARK, J.-Y., & S.-W. KIM. 1994. **[First records of Asiatic Dowitcher, Greater Yellowlegs and Gull-billed Tern in Korea.]** Kor. J. Ornithol. 1: 127–128. (Korea Inst. Ornithol., Kyung Hee Univ., Seoul 130-701, Republic of Korea.)—*Limnodromus semipalmatus*, *Gelochelidon nilotica*, and *Tringa melanoleuca*.
- PATRIKKEEV, M. 1996. **The status of Ferruginous Duck in Azerbaijan.** TWSG News No 9: 30–32. (118 Grant Ave., Hamilton, ON L8N 2X7, Can.)—*Aythya nyroca*.
- WUCZYNSKI, A. 1996. **[Changes in the breeding range of birds in the Russian arctic.]** Przegł. Zool. 40: 219–222. (Inst. Nat. Prot. PAS, Dolnoslaska Stacja Terenowa, Podwale 75, 50-449 Wrocław, Poland.) (Polish, Engl. summ.)
- YU, J.-P., & K.-H. HAHM. 1994. **[A study on the distribution of birds within the Junam reservoir in the last five years.]** Kor. J. Ornithol. 1: 95–103. (Graduate Sch. Educ., Kyungnam Univ., Korea.)—*Anas formosa* most common species. (Korean, Engl. summ.)—J.V.B.
- ECOLOGY AND POPULATIONS**
- ANDERSEN, D. E. 1996. **Intra-year reuse of Great-horned Owl nest sites by Barn Owls in east-central Colorado.** J. Raptor Res. 30: 90–92. (Minnesota Coop. Fish Wildl. Res. Unit, Univ. Minnesota, St. Paul, MN 55108, USA.)—2 of 22 cliff nests used by *Bubo virginianus* sequentially reused by *Tyto alba*.—J.P.S.
- ANDERSON, T., & D. YANCY. 1994. **Kentucky 1994 mid-winter Bald Eagle survey.** Kentucky Warbler 70: 85–86. (308 Meadow Ln., Frankfort, KY 40601, USA.)—274 *Haliaeetus leucocephalus* counted; numbers of adults, immatures and unknown close to those from preceding census.—R.B.C.
- ARDERN, S. L., ET AL. 1997. **Social and sexual monogamy in translocated New Zealand Robin populations detected using minisatellite DNA.** Auk 114: 120–126. (Sch. Biol. Sci., Univ. Auckland, Private Bag 92019, Auckland, NZ.)—*Petroica australis*.
- BACON, B., & C. GOWER. 1996. **Turtle-Flambeau Flowage wildlife surveys 1980–1990 and 1995 [Wisconsin].** Passenger Pigeon 58: 23–34. (Dept. Nat. Resour., Mercer, WI 54547, USA.)
- BADYAEV, A. V., T. E. MARTIN, & W. J. ETGES. 1996. **Habitat sampling and habitat selection by female Wild Turkeys: ecological correlates and reproductive consequences.** Auk 113: 636–646. (Div. Biol. Sci., Univ. Montana, Missoula, MT 59812, USA.)—Extent of habitat sampling by *Meleagris gallopavo* positively correlated with nesting success, negatively correlated with distance to re-nesting site after initial failure.—A.D.A.
- BAILEY, M. 1997. **A half century of Christmas Bird Counts in Saskatchewan.** Birding 29: 45–51. (102-1833 Coteau Ave., Weyburn, SK S4H 2X3, Can.)—Overview of results from 1942 to 1994 with comments on population trends, range expansion and introduced species.—R.B.C.
- BAULDRY, V. M., D. BIEMBORN, & P. ARCESE. 1996. **Return rates of migrating adult Eastern Bluebirds in relation to sex, winter weather and population size.** N. Am. Bird Bander 21: 129–137. (3632 St. Pat's Rd., Green Bay, WI 54313, USA.)—*Sialia sialis* banded as adults in Wisconsin.—R.B.C.

- BENSHMES, J. S., & W. B. EMISON. 1996. **Surveying Malleefowl breeding densities using an airborne thermal scanner.** Wildl. Res. 23: 121–142. (Dept. Conserv. Nat. Resour., 253 Eleventh St., Mildura, Victoria 3500, Australia.)—About 25% of known active mounds of *Leipoa ocellata* were detected by airborne thermal scanners.—M.G.B.
- BERTHLESEN, P. S., & L. M. SMITH. 1995. **Nongame bird nesting on CRP lands in the Texas southern high plains.** J. Soil Water Conserv. 50: 672–675. (Dept. Range Wildl. Manage., Texas Tech Univ., Lubbock, TX 79409, USA.)—*Aimophila cassinii*, *Ammodramus savannarum*, *Sturnella neglecta*, *Agelaius phoeniceus*; Conservation Reserve Program (CRP).—D.E.K.
- BEYERS, J. L., & G. C. PEÑA. 1995. **Characteristics of coastal sage scrub in relation to fire history and use by California Gnatcatchers.** Pp. 153–154 in: D. R. Weise & R. E. Martin, Eds. **The Biswell symposium: fire issues and solutions in urban interface and wildland ecosystems; Feb. 15–17, 1994; Walnut Creek, CA.** USDA, For. Serv. Gen. Tech. Rep. PSW-GTR-144. (Pacific SW Res. Stn., USDA For. Serv., 4955 Canyon Crest Dr., Riverside, CA 92507, USA.)—*Poliophtila californica*.
- BJORGE, R. R., & D. R. C. PRESCOTT. 1996. **Population estimate and habitat associations of the Loggerhead Shrike, *Lanius ludovicianus*, in southeastern Alberta.** Can. Field-Nat. 110: 445–449. (Nat. Resour. Serv., Suite 404, 4911-51st St., Red Deer, AB T4N 6V4, Can.)
- BLACK, J. E. 1996. **Monitoring nocturnally migrating birds using radar and acoustic microphones.** Birders J. 5: 75–77. (Physics Dept., Brock Univ., St. Catharines, ON L2S 3A1, Can.)—Vocalizations automatically recorded onto VHS tape at Long Point Bird Observatory, ON; video camera records activity on radar screen. Simultaneous use indicates birds not vocalizing some nights.—A.L.L.
- BLEM, C. R., & K. M. VANDENBERG. 1996. **Winter abundance of some finches in Virginia: 1965–1993.** Raven 67: 90–95. (Dept. Biol., Virginia Commonwealth Univ., 816 Park Ave., Richmond, VA 23284-2012, USA.)—Analyze Christmas Bird Counts for *Coccothraustes vespertinus*, *Carpodacus purpureus*, *Carduelis pinus*, *Zonotrichia albicollis*, and *Pipilo erythrophthalmus*.—R.B.C.
- BLUMS, P., & A. MEDNIS. 1996. **Secondary sex ratio in Anatinae.** Auk 113: 505–511. (Gaylord Mem. Lab., Puxico, MO 63960, USA.)—No sex ratio variation at hatching in 10 species.—J.R.F.
- BOCHENSKI, Z. 1995. **The effect of fishponds on the regional bird fauna.** Acta Hydrobiol. 37(suppl. 1): 75–82. (Inst. Syst. Evol. Anim., PAS, Slawkowska 17, 31-016 Kraków, Poland.)—Important for richness and diversity of birds and for supporting *Chlidonias hybrida* at northern limit of range in Poland.—J.P.
- BOŚAKOWSKI, T., R. D. RAMSEY, & D. G. SMITH. 1996. **Habitat and spatial relationships of nesting Swainson's Hawks (*Buteo swainsoni*) and Red-tailed Hawks (*B. jamaicensis*) in northern Utah.** Great Basin Nat. 56: 341–347. (Beak Consultants, Inc., 12931 126th Pl., Kirkland, WA 98034-7715, USA.)—Densities were 0.10 nests/km² for *Buteo swainsoni*, 0.08 nests/km² for *Buteo jamaicensis*. Data suggest a lack of habitat partitioning between species and both were equally tolerant of human activities judged by distances from nests to nearest paved road and building.—R.B.C.
- BRANCATO, R., M. R. FERRERO, & M. FERRO. 1995. **[Report on bird-ringing in Piedmont (NW Italy) for 1994.]** Riv. Piem. St. Nat. 16: 253–270. (Mus. Civico Craveri di Storia Naturale, via Craveri 15, 12042 Bra CN, Italy.)—*Hirundo rustica*, *Sylvia atricapilla*, *Anas platyrhynchos*, *Coturnix coturnix*, *Emberiza schoeniclus*. (Italian, Engl. summ.)
- BREININGER, D. R., ET AL. 1996. **Florida Scrub-jay demography in different landscapes.** Auk 113: 617–625. (DYN-2, Dynamic Int., NASA Biomed. Ops. Off., John F. Kennedy Space Ctr., FL 32899, USA.)—Reproductive success lower in suboptimal habitat for *Aphelocoma coerulescens*.—M.E.B.
- BRIGGS, S. V., S. A. THORTON, & W. G. LAWLER. 1997. **Relationships between hydrological control of River Red Gum wetlands [Australia] and waterbird breeding.** Emu 97: 31–42. (Natl. Pks. Wildl. Serv. (NSW), c/- CSIRO, P.O. Box 84, Lyneham, ACT 2602, Australia.)—Precocial, but not altricial, species strongly affected by control of water level.—S.R.P.
- BRUN, L., ET AL. 1996. **[Lesser Kestrel *Falco naumanni* in 1996 in the Crau, south-east France.]** Faune de Provence 17: 105–107. (3 rue du Midi, 13104 Mas Thibert, France.)—Population increase confirmed (42 pairs; 93 flying young). Results of ringing. (French, Engl. summ.)—G.O.
- BUKACINSKA, M., ET AL. 1995. **The importance of fishponds to waterfowl in Poland.** Acta Hydrobiol. 37(suppl. 1): 57–73. (Inst. Ecol., PAS, 05-092 Lomianki, Poland.)—Effects of fishpond size and vicinity of other water bodies on presence of birds.—J.P.
- BULL, E. L., & H. D. COOPER. 1996. **New techniques to capture Pileated Woodpeckers and Vaux's Swifts.** N. Am. Bird Bander 21: 138–142. (Pacific NW Res. Stn., 1401 Gekeler Ln., LaGrande, OR 97850, USA.)—*Dryocopus pileatus*, *Chaetura vauxi*; 3 b&w figs.—R.B.C.
- CABLE, T. T., ET AL. 1992. **Summer bird use of Kansas windbreaks.** Prairie Nat. 24: 175–184. (Dept. For., Kansas State Univ., Manhattan, KS 66506, USA.)—89 species found in 24 windbreaks, including 5 forest interior species.—S.W.G.
- CALME, S., & S. HADDAD. 1996. **Peatlands: a new habitat for the Upland Sandpiper, *Bartramia longicauda*, in eastern Canada.** Can. Field-Nat. 110: 326–330. (Ctr. Res. Biol. For., Univ. Laval, Sainte-Foy, PQ G1K 7P4, Can.)

- CERASOLI, M., & V. PENTERIANI. 1996. **Nest-site and aerial meeting point selection by Common Buzzards (*Buteo buteo*) in central Italy.** *J. Raptor Res.* 30: 130–135. (Stazione Romana Osservazione Protezione Uccelli, c/o Oasi Nat. WWF "Bosco di Palo", Via Palo Laziale, 2,00055 Ladispoli (Roma), Italy.)—15 pairs selected nest trees in mid-portions of northeastern-facing mountain slopes, placed nests at intersections between branches and trunks, and chose sites above steep slopes to rendezvous with neighbors. Nest productivity quantified.—J.P.S.
- CHAPMAN, A., & J. A. K. LANE. 1997. **Waterfowl usage of wetlands in the south-east arid interior of Western Australia 1992–93.** *Emu* 97: 51–59. (P.O. Box 264, Ravensthorpe, WA 6346, Australia.)—Describe use and breeding following wettest year on record.—S.R.P.
- COLLIAS, N. E., & E. C. COLLIAS. 1996. **Social organization of a Red Junglefowl, *Gallus gallus*, population related to evolution theory.** *Anim. Behav.* 51: 1337–1354. (Dept. Biol., Univ. Calif., Los Angeles, CA 90095-1606, USA.)
- CROONQUIST, M. J., & R. BROOKS. 1993. **Effects of habitat disturbance on bird communities in riparian corridors.** *J. Soil Water Conserv.* 48: 65–70. (Arizona Game Fish Dept., 5325 N. Stockton Hill Rd., Kingman, AZ 86401-1037, USA.)—*Tachycineta bicolor*, *Vireo solitarius*, *Colaptes auratus*, *Actitis macularia*, *Picoides villosus*, *Hirundo rustica*, *Icterus galbula*, *Tringa solitaria*, *Ceryle alcyon*, *Regulus satrapa*, *Certhia americana*, *Falco sparverius*.
- DAVIDSON, P. 1996. **Habitats and bird communities in southern Yemen and Socotra.** *Sandgrouse* 17: 102–129. (c/o OSME, The Lodge, Sandy, Beds. SG19 2DL, UK.)
- DAY, T. D. 1995. **Bird species composition and abundance in relation to native plants in urban gardens, Hamilton, New Zealand.** *Notornis* 42: 175–186. (Dept. Biol. Sci., Univ. Waikato, Hamilton, NZ.)—Diversity positively correlated with plant biomass. Native birds most abundant in gardens with high percentage of native plant species.—E.O.M.
- EAKLE, W. L., ET AL. 1996. **Results of a raptor survey in southwestern New Mexico.** *J. Raptor Res.* 30: 183–188. (U.S. Army Corps Engineers, Regulatory Br., 333 Market St., San Francisco, CA 94105-2197, USA.)—Relative abundance and habitat use for 17 species observed on 8 roadside counts, May to January.—J.P.S.
- ECKERT, K. R. 1996. **Fall 1995 census of migrants at the Lakewood Pumping Station [Duluth, Minnesota].** *Loon* 68: 35–36. (8255 Congdon Blvd., Duluth, MN 55804, USA.)
- ECKERT, K. R. 1996. **The 1995–1996 influx of northern owls.** *Loon* 68: 221–228. (8255 Congdon Blvd., Duluth, MN 55804, USA.)—High numbers of *Aegolius funereus*, *Surnia ulula*, *Strix nebulosa*, and *Nyctea scandiaca*, with considerable mortality in *Strix nebulosa* and *Aegolius funereus*, in Minnesota. See also *Loon* 68: 228–231.—D.L.E.
- ELLIOTT, G. P., ET AL. 1996. **The ecology of Yellow-crowned Parakeets (*Cyanoramphus auriceps*) in *Nothofagus* forest in Fiordland, New Zealand.** *N. Z. J. Zool.* 23: 249–265. (549 Rocks Rd., Nelson, NZ.)—Productivity and mortality depend on production of beech *Nothofagus* mast. Mortality increases following good mast years because of increased numbers of stoats *Mustela erminea*.—E.O.M.
- ELLIOTT, G. P. 1996. **Mohua and stoats: a population viability analysis.** *N. Z. J. Zool.* 23: 239–247. (549 Rocks Rd., Nelson, NZ.)—PVA used to assess *Mohoua ochrocephala* populations of different sizes, different breeding habits and differing frequencies of predation by stoats *Mustela erminea*.—E.O.M.
- FANCY, S. G. 1997. **A new approach for analyzing bird densities from variable circular-plot counts.** *Pacific Sci.* 51: 107–114. (USGS/BRD, Pacific Islands Ecosyst. Res. Ctr., P.O. Box 44, Hawai'i Natl. Park, Hawai'i, HI 96718, USA.)—Method pools data from several sources and adjusts detection distances as if all were recorded by a single observer under a given set of field conditions; tests method and provides information on appropriate computer software.—R.B.C.
- FRANSON, J. C., & S. E. LITTLE. 1996. **Diagnostic findings in 132 Great Horned Owls.** *J. Raptor Res.* 30: 1–6. (Natl. Wildl. Health Ctr., 6006 Schroeder Rd., Madison, WI 53711-6223, USA.)—Common causes of death in *Bubo virginianus*, ascertained from necropsy results, included emaciation, gunshot, electrocution, oil-field and agricultural poisoning, infectious disease, and other traumatic injuries.—J.P.S.
- GASTON, A. J., & P. SCOFIELD. 1995. **Birds and tuatara on North Brother Island, New Zealand.** *Notornis* 42: 27–41. (Canadian Wildl. Serv., 100 Gamelin Blvd., Hull, Quebec, Canada.)—Notes on breeding biology of Diving Petrels *Pelecanoides urinatrix* and Fairy Prions *Pachyptila turtur*. Observations of seabird feeding behaviour and interactions with tuatara *Sphenodon guntheri*.—E.O.M.
- GELVIN-INNVÆR, L. A. 1995. **Atlantic Coast Colonial Waterbird Survey Delaware 1995.** *Delmarva Ornithol.* 27: 6–16. (Nongame Endang. Species Progr., DE Div. Fish. Wildl., 89 Kings Hwy., Dover DE 19903, USA.)—*Sterna hirundo* populations declining rapidly with only 13 nests found; *Sterna forsteri* and *Sterna antillarum* are also declining but *Larus argentatus* are apparently increasing.—R.B.C.
- GIBB, J. A. 1996. **First seen or first heard? A useful distinction when counting forest birds.** *Notornis* 43: 7–13. (3 Wairere Rd., Lower Hutt, NZ.)—Discusses censuses in the Orongorongo Valley, New Zealand. Changes in the conspicuousness of species are difficult to distinguish from changes in

- numbers. Indices based on numbers first seen are probably more accurate.—E.O.M.
- GLASSEL, R. 1996. **Unusual numbers of wintering Long-eared Owls, winter of 1994–1995.** *Loon* 68: 73. (8219 Wentworth Ave. S., Bloomington, MN 55420, USA.)—Reports of 56 *Asio otus* in Minnesota, compared to average of 3.—D.L.E.
- GREENE, B. S. 1995. **Kokako (*Callaeas cinerea*) in the Hunua Range, Auckland, 1992–1994.** *Notornis* 42: 11–16. (Auckland Regional Council, Pks. Serv., Priv. Bag 92012, Auckland, NZ.)—Numbers have declined since 1986–1988 survey.—E.O.M.
- GREGORY, R. D., & S. R. BAILLIE. 1994. **Evaluation of sampling strategies for 1-km squares for inclusion in the Breeding Bird Survey.** BTO Res. Report 139. (BTO, Nat. Ctr. Ornithol., The Nunnery, Thetford, Norfolk, IP24 2PU, UK.)—Seek method for assessing breeding bird population densities as an improvement on strategy currently used by BTO.—D.J.L.M.
- GWIAZDA, R. 1995. **The water bird community on fishponds at Golysz [Poland] in the breeding season and its differentiation.** *Acta Hydrobiol.* 37(suppl. 1): 83–88. (Karol Starmach Inst. Freshwater Biol., PAS, ul. Slawkowska 17, 31-016 Kraków, Poland.)—*Anas platyrhynchos*, *Larus ridibundus*, *Aythya fuligula*, *Podiceps cristatus*, *Podiceps nigricollis* most common breeders.—J.P.
- GWIAZDA, R. 1996. **Contribution of water birds to nutrient loading to the ecosystems of a mesotrophic reservoir.** *Ekol. pol.* 44: 289–297. (Inst. Freshwater Biol. PAS, ul. Slawkowska 17, 31-016 Kraków, Poland.)—Nutrient loading by *Larus ridibundus* and *Anas platyrhynchos* to reservoir less than 1%.—J.P.
- HANSKI, I. K., T. J. FENSKE, & G. J. NIEMI. 1996. **Lack of edge effect in nesting success of breeding birds in managed forest landscapes.** *Auk* 113: 578–585. (5013 Miller Trunk Hwy., Nat. Resour. Res. Inst., Univ. Minnesota, Duluth, MN 55811, USA.)—Nest predation highest in forest and lowest in open and regenerating habitats. Distance to forest edge, nest height, and nest concealment had no effect on nest success.—A.D.D.
- HARIO, M. 1994. **Midwinter counts of seaducks in Finland in 1992/93.** IWRB Seaduck Res. Group Bull. 4: 8–10. (Finnish Game & Fish. Res. Inst., Game Div., P.O. Box 202, FIN-00151 Helsinki, Finland.)
- HAWROT, R. Y., & G. J. NIEMI. 1996. **Effects of edge type and patch shape on avian communities in a mixed conifer-hardwood forest.** *Auk* 113: 586–598. (5013 Miller Trunk Hwy., Nat. Res. Research Inst., Univ. Minnesota, Duluth, MN 55811, USA.)—Forest avian communities may be affected by both edge and area variables.—M.L.F.
- HEMESATH, L. M., & J. J. DINSMORE. 1993. **Factors affecting bird colonization of restored wetlands.** *Prairie Nat.* 25: 1–11. (Iowa Dept. Nat. Resour., Wildl. Res. Str., 1436 255th St., Boone, IA 50036, USA.)—Species richness influenced by wetland size but not years since drainage or since restoration.—S.W.G.
- HERREN, V., S. H. ANDERSON, & L. F. RUGGIERO. 1996. **Boreal Owl mating habitat in the northwestern United States.** *J. Raptor Res.* 30: 123–129. (Wyoming Coop. Fish Wildl. Res. Unit, Box 3166, Laramie, WY 82071, USA.)—Characteristics of *Aegolius funereus* singing locations compared with random locations in Medicine Bow National Forest; highest use of old forests with *Picea engelmanni* and *Abies lasiocarpa*.—J.P.S.
- HOLROYD, G. L., & U. BANASCH. 1996. **The 1990 Canadian Peregrine Falcon (*Falco peregrinus*) survey.** *J. Raptor Res.* 30: 145–156. (Canadian Wildl. Serv., Rm. 200., 4999-98 Ave., Edmonton, AB T6B 2H3, Can.)—Most populations of 3 races have increased since 1985–86, including double the number of nests for *Falco peregrinus anatum*.—J.P.S.
- HOLT, J. B., JR. 1996. **A banding study of Cincinnati [OH] area Great Horned Owls.** *J. Raptor Res.* 30: 194–197. (853 Johnson St., N. Andover, MA 01845-5513, USA.)—28 years of productivity, movement, and mortality data from 906 successful nests and 1570 banded *Bubo virginianus* nestlings.—J.P.S.
- HUNT, P. D. 1996. **Habitat selection by American Redstarts along a successional gradient in northern hardwoods forest: evaluation of habitat quality.** *Auk* 113: 875–888. (Dept. Biol. Sci., Dartmouth Coll., Hanover, NH 03755, USA.)—Higher density, higher proportion of after-2nd-year males, higher mating success of 2nd-year males, and smaller territory size of *Setophaga ruticilla* in early successional habitats.—A.D.A.
- IGL, L. D., & D. H. JOHNSON. 1997. **Changes in breeding bird populations in North Dakota: 1967 to 1992–93.** *Auk* 114: 74–92. (North. Prairie Sci. Ctr., Jamestown, ND 58401, USA.)—Evidence for decline in grassland and wetland birds.—M.W.
- IGL, L. 1996. **Le Conte's, Sharp-tailed, and Henslow's sparrows in Grant County [Minnesota].** *Loon* 68: 127–128. (North. Prairie Sci. Ctr., Jamestown, ND 58401, USA.)—Surveys for *Ammodramus leconteii*, *Ammodramus caudacutus*, & *Ammodramus henslowii* on Conservation Reserve Program land.—D.L.E.
- JOHNSON, D. H. 1996. **Terrestrial bird communities on the Woodworth Study Area [North Dakota].** *Proc. N. Dakota Acad. Sci.* 50: 127–131. (USGS/BRD, North. Prairie Sci. Ctr., 8711 37th St. SE, Jamestown, ND 58401, USA.)—Summary of Breeding Bird Censuses conducted 1972–1995.—R.B.C.
- K. I. LANGE. 1996. **Migrant water birds, including gulls and terns, on Devil's Lake, Sauk County, Wisconsin.** *Passenger Pigeon* 58: 49–53. (1530 East St., Baraboo, WI 54913, USA.)
- KENDALL, W. L., B. G. PETERJOHN, & J. R. SAUER. 1996. **First-time observer effects in the North American Breeding Bird Survey.** *Auk* 113: 823–829. (USFWS,

- Off. Migratory Bird Manage., Laurel, MD 20708, USA.)—Removing observations by 1st-year BBS participants reduces a positive bias of trend estimates.—M.L.F.
- KINNAIRD, M. F., T. G. O'BRIEN, & S. SURYADI. 1996. **Population fluctuation in Sulawesi Red-knobbed Hornbills: Tracking figs in space and time.** *Auk* 113: 431–440. (Wildl. Conserv. Soc., 185th & South Blvd., Bronx, NY 10460, USA.)—*Aceros* (formerly *Rhyticeros*) *cassidix*.
- KOENIG, W. D., & J. L. DICKINSON. 1996. **Nestling sex-ratio variation in Western Bluebirds.** *Auk* 113: 902–910. (Hastings Nat. Hist. Reserv., Univ. California, 38601 E. Carmel Valley Rd., Carmel Valley, CA 93924, USA.)—No bias in *Sialia mexicana*.—C.A.H.
- KREMENTZ, D. G., R. J. BARKER, & J. D. NICHOLS. 1997. **Sources of variation in waterfowl survival rates.** *Auk* 114: 93–102. (Warnell Sch. For. Resour., Univ. Georgia, Athens, GA 30602, USA.)—Geography, body mass, and phylogeny explain variation.—J.R.F.
- KURESOO, A., ET AL. 1994. **Midwinter waterfowl counts in Estonia, January 1993.** IWRB Seaduck Res. Group Bull. 4: 11–15. (Inst. Zool. & Bot., Vanemuise St. 21, EE-2400 Tartu, Estonia.)
- LARIVÉE, J. 1991. [House Sparrow is getting rarer in Quebec.] *Québec Oiseaux* 2(4): 24–25. (c/o Club Ornithol., Bas-St-Laurent, C.P. 118, Pointe-au-Père, PQ G5M 1R1, Can.)—*Passer domesticus*. (French.)
- LINDSTRÖM, J., ET AL. 1997. **Reproductive output, population structure and cyclic dynamics in Capercaillie, Black Grouse and Hazel Grouse.** *J. Avian Biol.* 28: 1–8. (Dept. Ecol. & Syst., Div. Pop. Biol., P.O. Box 17, FIN-00014 Univ. Helsinki, Finland.)—21-yr study of *Tetrao urogallus*, *Tetrao tetrix* and *Bonasa bonasia* in 11 Finnish provinces.—R.T.B.
- MADSEN, J., & C. MITCHELL. 1994. **Status of the Pink-footed Goose, 1990–1993.** IWRB Goose Res. Group Bull. 5: 8–11. (Dept. Wildl. Ecol., Natl. Environ. Res. Inst., Kalo, DK-8410 Ronde, Denmark.)—*Anser brachyrhynchus*.
- MADSEN, J. 1994. **Recent population status of Brent Geese.** IWRB Goose Res. Group Bull. 5: 5–7. (Dept. Wildl. Ecol., Natl. Environ. Res. Inst., Kalo, DK-8410 Ronde, Denmark.)—*Branta bernicla*.
- MARQUISS, M., & K. DUNCAN. 1993. **Variation in the abundance of Red-breasted Mergansers *Mergus serrator* on a Scottish river in relation to season, year, river hydrography, salmon density and spring culling.** *Ibis* 135:33–41. (Inst. Terrestrial Ecol., Hill of Brathens, Banchoy, Kincardineshire AB31 4BY, UK.)
- MCGRADY, M. J., & J. R. GRANT. 1996. **The use of a power snare to capture breeding Golden Eagles.** *J. Raptor Res.* 30: 28–31. (R. Soc. Prot. Birds, Scottish Hdqtrs., 17 Regent Terr., Edinburgh EH7 5BN, UK.)—Radio-triggered, nest-mounted device resulted in 8 successes out of 10 attempts, no effect on nest productivity, but increased use of new nests the following year.—J.P.S.
- MEHLMAN, D. W. 1996. **Surveys of grassland birds at the Maxwell National Wildlife Refuge [New Mexico].** *New Mexico Ornithol. Soc. Bull.* 24: 69–80. (USGS/BRD, For. & Rangeland Ecosyst. Sci. Ctr., 3200 SW Jefferson Way, Corvallis, OR 97331, USA.)—Results of 65 point counts repeated on 3 surveys in 1995 with more detailed notes on 11 species of particular interest.—R.B.C.
- MEISSNER, J., & B. STRUWE. 1994. **Results of the midwinter count in 1993 on the Baltic coast of Schleswig Holstein, Germany.** IWRB Seaduck Res. Group Bull. 4: 36–38. (Brunsrade 3, D-24114 Kiel, Germany.)—Ground and aerial survey.—D.J.L.M.
- MEISSNER, W. 1994. **Midwinter counts along the Polish coast of the Baltic, 1992 and 1993.** IWRB Seaduck Res. Group Bull. 4: 26–30. (Dept. Vert. Ecol. & Zool., Univ. Gdansk, Al. Legionow 9, 80-441 Gdansk, Poland.)—Ground and aerial seaduck surveys.—D.J.L.M.
- MITRA, S., H. LANDEL, & S. PRUETT-JONES. 1996. **Species richness covaries with mating system in birds.** *Auk* 113: 544–551. (Com. Evol. Biol., Univ. Chicago, 1101 E. 57th St., Chicago, IL 60637, USA.)
- MIYAZAKI, M. 1996. **Vegetation cover, kleptoparasitism by diurnal gulls, and timing of arrival of nocturnal Rhinoceros Auklets.** *Auk* 113: 698–702. (Lab. Appl. Zool., Fac. Agric., Hokkaido Univ., Sapporo 060, Japan.)—*Cerorhinca monocerata*, *Larus crassirostris*.
- MOOJ, J. H. 1997. **The status of White-fronted Goose (*Anser anser albifrons*) in the Western Palearctic.** *Vogelwarte* 39: 61–81. (Biol. Stn. Kreis Wesel, Diersfordter Str. 9, D-46483 Wesel, Germany.)—Analysis of population size on wintering and breeding grounds, annual reproduction and mortality rates indicates that increase in Western Europe in winter is result of major shift of wintering areas.—K.-M.E.
- MUTSUYUKI U., & J. S. MINTON. 1996. **Habitat preference of Crested Serpent Eagles in southern Japan.** *J. Raptor Res.* 30: 99–100. (Res. Ctr., Wild Bird Soc. Japan, 15-8 Nanpeidai, Shibuya, Tokyo 150, Japan.)—Based on observations of 97 perched *Spilornis cheela*.—J.P.S.
- NEHLS, H. W. 1994. **Results of the midwinter waterfowl counts on the Baltic coast of Mecklenburg-Western Pomerania in January 1992 and 1993.** IWRB Seaduck Res. Group Bull. 4: 31–35. (Zoologischer Garten, Rennbahnalle 21, D-18059 Rostock, Germany.)—Detailed aerial transects; numbers > 10,000 for several species.—D.J.L.M.
- NILSSON, L. 1994. **Midwinter counts of waterfowl along the Baltic coast of Sweden in January 1993.** IWRB Seaduck Res. Group Bull. 4: 2–7. (Dept. Anim. Ecol., Univ. Lund, Ecol. Bldg., S-223 62 Lund, Sweden.)
- NOSKE, R. A. 1996. **Abundance, zonation and foraging ecology of birds in mangroves of Darwin Har-**

- bour, Northern Territory.** Wildl. Res. 23: 443–474. (Sci. Fac., NT Univ., P.O. Box 40146, Casuarina, NT 0811, Australia.)
- PALMER-BALL, B., JR., & T. WETHINGTON. 1994. **1994 survey of Kentucky heronries.** Kentucky Warbler 70: 77–82. (Ky. State Nat. Preserves Comm., 801 Schenkel Ln., Frankfort, KY 40601, USA.)—Appendix lists 26 sites, species, numbers and changes. Most colonies were of *Ardea herodias* with increase of 42% from 1986. Numbers of *Casmerodius albus* are also increasing, but other nesting waterbirds have remained unchanged.—R.B.C.
- PARR, S. J., ET AL. 1996. **A baseline survey of White Storks *Ciconia ciconia* in central Turkey.** Sandgrouse 18 (2): 46–51. (Countryside Counc. Wales, Plas Penrhos, Bangor LL57 2LQ, UK.)
- PIHL, S., & K. LAURSEN. 1994. **Midwinter counts in the Baltic part of Denmark in 1991 and 1992.** IWRB Seaduck Res. Group Bull. 4: 39–41. (Dept. Wildl. Ecol., Natl. Environ. Res. Inst., Kalo, DK-8410 Denmark.)—Results of extensive survey.—D.J.L.M.
- PIHL, S. 1994. **Aerial surveys of offshore parts of the western Baltic Sea.** IWRB Seaduck Res. Group Bull. 4: 48–50. (Dept. Wildl. Ecol., Natl. Environ. Res. Inst., Kalo, DK-8410 Ronde, Denmark.)
- POOLE, J., ET AL. 1996. **Seabird monitoring on Skomer Island in 1995.** JNCC Report 223. (Dyfed Wildl. Trust, 7 Market St., Haverfordwest, Dyfed SA61 1NF, UK.)—Population trends of 11 species on island off Welsh coast.—J.V.B.
- PRINCE, P. A., ET AL. 1994. **Population dynamics of Black-browed and Grey-headed Albatrosses *Diomedea melanophris* and *Diomedea chrysostoma* at Bird Island, South Georgia.** Ibis 136: 50–71. (British Antarctic Survey, Nat. Environ. Res. Counc., High Cross, Madingley Rd., Cambridge CB3 0ET, UK.)
- PURGER, J. J. 1996. **Numbers and distribution of Red-footed Falcon (*Falco vespertinus*) nests in Voivodina (northern Serbia).** J. Raptor Res. 30: 165–168. (Dept. Ecol. Zoogeog., Janus Pannonius Univ., 7601 Pécs, Ifjúság útja 6, Hungary.)—Located 308 nests in 1990 and 124 nests in 1991, most in the Banat region.—J.P.S.
- REMPSEN, J. V., JR., & D. A. GOOD. 1996. **Misuse of data from mist-net captures to assess relative abundance in bird populations.** Auk 113: 381–398. (Mus. Nat. Sci., 119 Foster Hall, Louisiana State Univ., Baton Rouge, LA 70803, USA.)—Model effects of confounding variables.—A.D.A.
- REYNOLDS, M. H., B. A. COOPER, & R. H. DAY. 1997. **Radar study of seabirds and bats on windward Hawai'i.** Pacific Sci. 51: 97–106. (USGS/BRD, Pacific Islands Ecosyst. Res. Ctr., Hawai'i Field Stn., P.O. Box 44, Hawai'i Natl. Park, Hawai'i, HI 96718, USA.)—Technique used to detect *Pterodroma phaeopygia sandwichensis*, *Puffinus auricularis newelli*, and *Lasiurus cinereus semotus* at breeding sites. Method may be most useful for quantifying nocturnal populations of these species.—R.B.C.
- RINKEVICH, S. E., & R. J. GUTIÉRREZ. 1996. **Mexican Spotted Owl habitat characteristics in Zion National Park.** J. Raptor Res. 30: 74–78. (Dept. Wildl., Humboldt State Univ., Arcata, CA 95521, USA.)—Based on visual and auditory detections of 12 pairs and 4 adult male *Strix occidentalis lucida*.—J.P.S.
- ROBBINS, S. D., ET AL. 1996. **The Breeding Bird Survey in Wisconsin: 1966–1991.** Passenger Pigeon 58: 81–179. (14 S. Roby Rd., Madison, WI 53705, USA.)
- RODGERS, R., & M. L. SEXSON. 1990. **Impacts of extensive chemical control of sand sagebrush on breeding birds.** J. Soil Water Conserv. 45: 494–497. (Kansas Dept. Wildl. Pks., Hays, KS 67601, USA.)—*Centrocercus urophasianus*, *Spizella breweri*.
- ROSSENFELD, R. N., J. BIELEFELDT, & S. M. VOS. 1996. **Skewed sex ratios in Cooper's Hawk offspring.** Auk 113: 957–960. (Dept. Biol., Univ. Wisconsin, Stevens Pt., WI 54481, USA.)—Long-term data indicate male-biased sex ratio at fertilization, nestling stage, and fledging in *Accipiter cooperii*.—A.D.D.
- ROWE, S., & R. EMPSON. 1996. **Distribution and abundance of the Tanga'eo or Mangaia Kingfisher (*Halcyon tuta ruficollaris*).** Notornis 43: 35–42. (1 Corrin St., Hamilton, NZ.)—The Tanga'eo on Mangaia, Cook Islands is a true forest kingfisher, preferring a continuous canopy. Population of 250–450 threatened by forest fragmentation and disturbance from introduced *Mynas Acridotheres tristis*.—E.O.M.
- SAMTMANN, S. 1996. **[Ringing of Mute Swan (*Cygnus olor*) in Alsace, France.]** Schoeniclus 2: 53–59. (Stn. ornithol. de Munchhausen, BP 14, 67660 Betschdorf, France.) (French)
- SIEVING, K. E., M. F. WILLSON, & T. L. DE SANTO. 1996. **Habitat barriers to movement of understory birds in fragmented south-temperate rainforest.** Auk 113: 944–949. (Dept. Wildl. Ecol. Cons., Univ. Florida, 303 Newins-Ziegler Hall, Gainesville, FL 32611, USA.)—Territorial individuals of 5 species rarely entered open habitats in response to playbacks.—M.E.B.
- SIM, D., & R. G. POWLESLAND. 1995. **Recoveries of Black Shags (*Phalacrocorax carbo*) banded in Wairarapa, New Zealand.** Notornis 42: 23–26. (84 Kuratawhiti St., Greytown, NZ.)—41 of 490 banded individuals recovered; of those 85% were within 100 km of banding sites but 1 from 2000 km away on Lord Howe Island.—E.O.M.
- SOLBERG, K. L., & K. F. HIGGINS. 1993. **Over-water nesting by ducks in northeastern South Dakota.** Prairie Nat. 25: 19–22. (Minnesota Dept. Nat. Resour., P.O. Box 398, Hinckley, MN 55037, USA.)—Nesting success for *Aythya americana*, *Oxyura jamaicensis*, *Anas platyrhynchos*, *Aythya valisineria*.—S.W.G.
- STOLESON, S. H. 1997. **Double jeopardy and the parameterization of brood reduction models: a com-**

- ment on Mock and Forbes (1994).** *Auk* 114: 137–140. (Sch. For. Environ. Stud., Yale Univ., New Haven, CT 06511, USA.)—Questions model (*Auk* 111: 115).—J.R.F.
- STIPNIECE, A. 1994. **Midwinter coastal counts in Latvia in 1993.** IWRB Seaduck Res. Group Bull. 4: 16–18. (Inst. Biol., Miera 3, Salaspils, LV-2169, Latvia.)
- STUART-SMITH, K. 1991. **Do lemming, vole, and snowshoe hare cycles affect other small birds and mammals in northern ecosystems?** *Musk-Ox* 39: 181–188. (Dept. Zool., Univ. Alberta, Edmonton, AB T6G 2E9, Can.)—Examines “alternative prey hypothesis” using holarctic data.—G.S.
- SUTHERLAND, W. J., & S. R. BAILLIE. 1993. **Patterns in the distribution, abundance and variation of bird populations.** *Ibis* 135: 209–210. (Sch. Biol. Sci., Univ. East Anglia, Norwich NR4 7TJ, UK.)—Analysis using populations of UK birds.—J.V.B.
- SVAZAS, S., G. VAITKUS, & G. GRISHANOV. 1994. **Report on aerial midwinter counts of waterfowl in Lithuanian and Kaliningrad near-shore waters in 1993.** IWRB Seaduck Res. Group Bull. 4: 19–25. (Inst. Ecol., Akademijos 2, 2600 Vilnius, Lithuania.)—Large numbers of *Clangula hyemalis*, *Melanitta fusca*, *Mergus merganser* and *Bucephala clangula*.—D.J.L.M.
- TIDEMANN, E. R., K. B. H. TIDEMANN, & C. R. TIDEMANN. 1996. **Importance of Yellow Box–Blakely’s Red Gum woodland remnants in maintaining bird species diversity: inferences from seasonal data.** *Corella* 20: 117–128. (Sch. Resour. Environ. Manage., Aust. Natl. Univ., Canberra, ACT 0200, Australia.)—Serve as breeding sites and winter refuges.—I.D.E.
- TOMIALOJC, L., & T. WESOLOWSKI. 1996. **Structure of a primaevial forest bird community during the 1970s and 1990s (Bialowieza National Park, Poland).** *Acta Ornithol.* (Warsaw) 31: 133–154. (Mus. Nat. Hist., Dept. Avian Ecol., Wrocław Univ., Sienkiewicza 21, 50-335 Wrocław, Poland.)—Community structure and breeding densities compared on same plots between the two time periods.—J.P.
- TRIQUET, A. M., G. A. MCPEEK, & W. C. MCCOMB. 1990. **Songbird diversity in clearcuts with and without a riparian buffer strip.** *J. Soil Water Conserv.* 45: 500–503. (Dept. For., Univ. Kentucky, Lexington, KY 40506, USA.)—*Icteria virens*, *Passerina cyanea*, *Pipilo erythrophthalmus*, *Wilsonia citrina*, *Oporornis formosus*, *Empidonax virescens*, *Vireo olivaceus*, *Dendroica virens*.
- VAITKUS, G. 1994. **Seabird densities in central and eastern Baltic during late winter 1993.** IWRB Seaduck Res. Group Bull. 4: 42–47. (Lab. Ornithol., Inst. Ecol., Akademijos St. 2, 2600 Vilnius, Lithuania.)—Ship transect surveys.—D.J.L.M.
- VAN STAPPEN, J. F., & M. E. DALLMAN. 1996. **Apostle Islands National Lakeshore [Wisconsin] 1995 Breeding Bird Survey report.** *Passenger Pigeon* 58: 35–46. (Apostle Islands Natl. Lakeshore, Rt. 1, Box 4, Bayfield, WI 54814, USA.)
- WATERHOUSE, R. D. 1997. **Some observations on the ecology of the Rainbow Lorikeet *Trichoglossus haematodus* in Oatley, South Sydney [Australia].** *Corella* 21: 17–24. (4/1–5 Ada St., Oatley, NSW 2223, Australia.)—Mainly exotic food resources and aggressive defence of nest hollows has allowed recolonisation of suburban area.—I.D.E.
- WATTS, B. D., & D. S. BRADSHAW. 1996. **Population expansion by Double-crested Cormorants in Virginia.** *Raven* 67: 75–78. (Ctr. Conserv. Biol., Coll. William & Mary, Williamsburg, VA 23185, USA.)—*Phalacrocorax auritus* nest numbers increased from 8 to 402 from 1985 to 1995. Describe 5 known breeding sites.—R.B.C.
- WATTS, B. D., D. S. BRADSHAW, & R. R. CROSS. 1996. **Annual plover survey of the Virginia barrier islands: a ten year summary.** *Raven* 67: 84–89. (Ctr. Conserv. Biol., Coll. William & Mary, Williamsburg, VA 23195, USA.)—From 1986 to 1995 *Charadrius melodus* breeding populations averaged 104.7 pairs and from 1989 to 1995 *Charadrius wilsonia* breeding populations averaged 39.9 pairs. Virginia holds 17.1% of Atlantic Coast and 5.4% of total population of *Charadrius melodus*.—R.B.C.
- WELLER, M. W., E. H. SMITH, & R. M. TAYLOR. 1996. **Waterbird utilization of a freshwater impoundment on a coastal Texas wildlife refuge.** *Texas J. Sci.* 48: 319–328. (Dept. Wildl. Fish. Sci., Texas A&M Univ., College Station, TX 77843-2258, USA.)
- WHITE, R., ET AL. 1996. **Survey of breeding Common Gulls in the Correen Hills and Mortlach Hills, Grampian, 1995 summary report.** JNCC Report 224. (JNCC, Seabirds & Cetaceans Br., Dunnet Ho., 7 Thistle Pl., Aberdeen AB10 1UZ, UK.)—*Larus canus* in Scotland.—J.V.B.
- WILLIAMS, B., ET AL. 1996. **The 1995 beach-nesting and colonial waterbird survey of the Virginia barrier islands.** *Raven* 67: 79–83. (154 Lakeswood Dr., Williamsburg, VA 23185, USA.)—1995 survey found a pair of *Pelecanus erythrorhynchos* at an empty nest in Jun on Fishermans Island, a species that has not as yet bred in Virginia. Numbers for *Ardea herodias*, *Casmerodius albus*, and *Eudocimus albus* were high, those for other herons low. *Charadrius wilsonia* and *Charadrius melodus* continued to increase but *Haematopus palliatus* continued to decline. Populations of larger gulls were stable, but *Larus atricilla* reached an all time low. Population trends in gulls and skimmers were mixed.—R.B.C.
- WILSON, S. 1996. **Irruption of Boreal Owls, winter 1995–1996.** *Loon* 68: 228–231. (P.O. Box 607, Tower, MN 55790, USA.)—176 of 212 *Aegolius funereus* sightings in Minnesota were of dead or dying birds; see also *Loon* 68: 221–228.—D.L.E.
- WIRTZ, W. O. 1991. **Avifauna in southern California chaparral: seasonal distribution, habitat association, reproductive phenology.** USDA, For. Serv.

- Res. Paper PSW-RP-209. (Pacific SW Res. Stn.: P.O. Box 245, Berkeley, CA 94701-0245, USA.)—Documents changes in species composition in the San Gabriel Mountains, CA, between the late 1930's and the 1970's.—W.M.G.
- WITT, J. W. 1996. **Long-term population monitoring of Osprey along the Umpqua River in western Oregon.** *J. Raptor Res.* 30: 62–69. (USBLM, 777 NW Garden Valley Blvd., Roseburg, OR 97470, USA.)—Artificial nesting platforms and perches contributed to 153% increase in population of *Pandion haliaetus* from 1981–90.—J.P.S.
- ZANG, H. 1997. [Population development, altitudinal distribution and settling behavior of *Ficedula hypoleuca* in the Harz Mountains.] *J. Ornithol.* 138: 39–49. (Oberer Triftweg 31A, D-38640 Goslar, Germany.)—60% population decline led to reductions in altitudinal limits and settling area. (German, Engl. summ.)—P.H.B.
- A Special Publication**
- KANJI, G. K., ED. 1995. **Statistics and ornithology.** *J. Appl. Stat.* 22: 557–1081. (Div. Appl. Stat., Sch. Computing Manage. Sci., Sheffield Hallam Univ., 100 Napier St., Sheffield S11 8HD, UK.)—Special issue presents the results of the Sep 1994 European Union for Bird Ringing (EURING) Conf. held at the Patuxent Environ. Sci. Ctr., Laurel, MD. Topics covered include estimation and modeling of avian survival, avian movement, migration and recruitment, computer software, application of banding to questions in evolutionary ecology, application of banding to conservation and management.—R.B.C.
- AEBISCHER, N. J. 1995. **Investigating the effects of hunting on the survival of British pigeons and doves by analysis of ringing recoveries.** Pp. 923–934. (Game Conserv. Trust, Fordingbridge, Hampshire SP6 1EF, UK.)—Change in British hunting regulations had no effect on annual survivorship of Stock Dove, *Columba oenas*, or Collared Dove, *Streptopelia decaocto*, but Wood-pigeons, *Columba palumbus*, have increased despite heavy shooting.
- ARNASON, A. N., & C. J. SCHWARZ. 1995. **POPAN-4: enhancements to a system for the analysis of mark-recapture data from open populations.** Pp. 785–800. (Dept. Comp. Sci., Univ. Manitoba, Winnipeg, MB R3T 2N2, Can.)—Program adds a general procedure for fitting constrained models based on a new unified theory for Jolly-Seber models; it allows constraints to be imposed on capture, survival and birth rates over time and/or across attribute groups (sex, age), and can model such rates using covariate models with auxiliary variables such as sampling effort.
- BAILLIE, S. R. 1995. **Uses of ringing data for the conservation and management of bird populations: a ringing scheme perspective.** Pp. 967–987. (BTO, Natl. Ctr. Ornithol., The Nunnery, Thetford, Norfolk IP24 2PU, UK.)—Review of current and potential use of banding recovery and mark-recapture methods for conservation-oriented research by European ringing schemes with comments on the data holdings and data gathering potential of the 33 European ringing schemes.
- BAUCHAU, V., & A. J. VAN NOORDWIJK. 1995. **Comparison of survival estimates obtained from three different methods of recapture in the same population of the Great Tit.** Pp. 1031–1037. (Netherlands Inst. Ecol., Ctr. Terrestrial Ecol., Boterhoeksestr. 22, P.O. Box 40, 6666 ZG Heteren, The Netherlands.)—Analysis of 20 years of captures of *Parus major* to determine best methods of recapture for estimating survival. Capture of adults feeding young at nest was better than capture of birds roosting in nest-boxes or by mist-netting.
- BURNHAM, K. P., D. R. ANDERSON, & G. G. WHITE. 1995. **Selection among open population capture-recapture models when capture probabilities are heterogeneous.** Pp. 611–624. (USGS/BRD, Colorado State Univ., 201 Waglar Bldg., Fort Collins, CO 80523, USA.)—Model size increased with sample size, and heterogeneity in capture probabilities had negligible effects on model selection for both Akaié's Information Criterion and a dimension-consistent criterion.
- CATCHPOLE, E. A. 1995. **MATLAB: an environment for analyzing ring-recovery and recapture data.** Pp. 801–816. (Dept. Math. Stat., Univ. Coll., UNSW, Canberra, A.C.T. 2600, Australia.)—Program use shown in analysis of band recovery data on Grey Herons, *Ardea cinerea*, with and without covariates. Eagle, a package of simple MATLAB programs for analysis of band-recovery data, used to fit a simple model to some recapture data on Herring Gulls, *Larus argentatus*.
- CATCHPOLE, E. A., S. N. FREEMAN, & B. J. T. MORGAN. 1995. **Modelling age variation in survival and reporting rates for recovery models.** Pp. 597–609. (Dept. Math. Stat., Univ. Coll., UNSW, Canberra, A.C.T. 2600, Australia.)—Guidelines for fitting models to data for birds banded as young when age dependence is expected in the reporting probability.
- CLOBERT, J. 1995. **Capture-recapture and evolutionary ecology: a difficult wedding?** Pp. 989–1008. (Lab. Ecol., Univ. Pierre et Marie Curie, 7 quai Saint Bernard, F-75252 Paris Cedex 05, France.)—Reviews potential for applying capture-marking-resighting models to current questions in evolutionary ecology, particularly with respect to measuring cost of reproduction and trade-offs.
- CONROY, M. J. 1995. **Comparison of programs MULT, ESTIMATE, and BROWNIE.** Pp. 763–773. (USGS/BRD, Coop. Fish Wildl. Res. Unit,

- Warnell Sch. For. Resour., Athens, GA 30602, USA.)—Recommends MULT for analysis of band recoveries; it is easier to use and a wider range of variables is available.
- DAWSON, D. K., ET AL. 1995. **Estimating bird species richness from capture and count data.** Pp. 1063–1068. (USGS/BRD, Patuxent Wildl. Res. Ctr., 11410 American Holly Dr., Laurel, MD 20708, USA.)—No consistent differences between richness estimates from point-count and capture-recapture methods in forest and pasture habitat in Campeche, Mexico. Since 2 techniques sample different species, 1 technique may not suffice to derive total species richness and comparing estimates sampled by different techniques may not be valid.
- DESANTE, D. F. 1995. **Suggestions for future directions for studies of marked migratory landbirds from the perspective of a practitioner in population management and conservation.** Pp. 949–965. (Inst. for Bird Pop., P.O. Box 1346, Point Reyes Stn., CA 94956, USA.)—Future methodological studies should focus on identifying major causes of population declines in migratory landbirds, including analyses of critical population parameters, especially processes of juvenile dispersal, recruitment and emigration.
- DESANTE, D. F., ET AL. 1995. **Productivity indices and survival rate estimates from MAPS, a continent-wide programme of constant-effort mist-netting in North America.** Pp. 935–947. (Inst. Bird Pop., P.O. Box 1346, Point Reyes Stn., CA 94956, USA.)—Important benefits from MAPS (Monitoring Avian Productivity and Survivorship): 1) indices of adult population correlate well with indices from point-counts at MAPS stations, 2) annual changes in indices of productivity from MAPS were similar to changes documented by direct nest monitoring, and 3) a model using between-year recaptures in Cormack-Jolly-Seber mark-recapture analyses provided better results than did standard CJS mark-recapture analyses.—R.B.C.
- FRANCIS, C. M. 1995. **How useful are recoveries of North American passerines for survival analyses?** Pp. 1075–1081. (Long Pt. Bird Obs., P.O. Box 160, Port Rowan, ON N0E 1M0, Can.)—Of 17 million passerines banded 1955–1984 in North America only 0.4% were recovered; only 62 species with >100 recoveries, 26 with >500. Stochastic recovery models may be applicable to species with more than 100 recoveries depending on the distribution of the recoveries.
- FRANCIS, C. M. 1995. **Estimating survival rates from recoveries of birds ringed as young: a case study.** Pp. 566–577. (Long Pt. Bird Obs., P.O. Box 160, Port Rowan, ON N0E 1M0, Can.)—Analysis of methods of estimating survival using Lesser Snow Geese, *Chen caerulescens caerulescens*; because immature rates varied with age, estimation of survival for this species requires additional data from birds recaptured or banded as sub-adults or adults.
- HESTBECK, J. B. 1995. **Bias in transition-specific survival and movement probabilities estimated using capture-recapture data.** Pp. 737–750. (Coop. Fish Wildl. Res. Unit, Dept. For. Wildl. Manage., Univ. Massachusetts, Amherst, MA 01003-4220, USA.)—Magnitude of relative bias in estimations of movement rates depends upon relative difference between transitions-specific survival rate and corresponding stratum survival rate; direction in bias in movement rate estimates is opposite to direction of this difference.
- HESTBECK, J. 1995. **Population study and management of Atlantic Flyway Canada Geese.** Pp. 877–890. (Coop. Fish Wildl. Res. Unit, Dept. For. Wildl. Manage., Univ. Massachusetts, Amherst, MA 01003-4220, USA.)—Since the 1950's the number of *Branta canadensis* wintering has increased in the mid-Atlantic (NY, PA, WV, NJ) and then decreased in the Chesapeake region (DE, MD, VA) and in the south (NC, SC, GA, FL). Migrants are declining in all wintering regions and residents apparently are increasing, possibly from production differences among populations.
- HOFFMANN, A., & J. R. SKALSKI. 1995. **Inferential properties of an individual based survival model using release-recapture data: sample size, validity and power.** Pp. 579–595. (PNL, P. O. Box K6-63, Richland, WA 99352, USA.)—Generalizes existing individual covariate model to include multiple groups of animals.
- KAISER, A. 1995. **Estimating turnover, movements and capture parameters of resting passerines in standardized capture-recapture studies.** Pp. 1039–1047. (Max-Planck-Inst. Verhaltenphysiol., Vogelwarte Radolfzell, AM Obstberg, D-78315, Radolfzell, Germany.)—Jolly-Seber models A, B, D, and 2 used to investigate capture-recapture data; A most useful, 2 useful in some applications, but B and D gave poor results. Discusses factors influencing estimation of capture parameters.
- KENDALL, W. L., & J. D. NICHOLS. 1995. **On the use of secondary capture-recapture samples to estimate temporary emigration and breeding proportions.** Pp. 771–762. (USFWS, Off. Migr. Bird Manage., Henshaw Lab, 11500 American Holly Dr., Laurel, MD 20708, USA.)—Use of secondary capture samples over shorter intervals with the assumption that population is closed (Pollock's robust design) allows estimation of temporary emigration probabilities to and from a single site.
- LEBRETON, J.-D. 1995. **The future of population dynamics using marked individuals: a statistician's perspective.** Pp. 1009–1030. (Ctr. Ecol. Fonct. & Evol., CNRS, F-34033 Montpellier Ced-

- ex 1, France.)—Reviews 3 lines of development of capture-recapture methodology, consolidation of recent results, perspective of broad generalizations, and problems associated with transfer of knowledge to biologists.
- LEGENBRE, S., & J. CLOBERT. 1995. **ULM, a software for conservation and evolutionary biologists.** Pp. 817–834. (Lab. Ecol, Ecole Normale Supérieure, 46 rue d'Ulm, F-75230 Paris Cedex 05, France.)—ULM (Unified Life Models) matrix model program use exemplified by a simple model of *Sturnus vulgaris* population life cycle which is then used to study competing habits in a varying environment. Also present a meta-population model with migrations. Provide list of ways in which program has been used to study various subjects.
- LINDBERG, M. S., J. S. SEDINGER, & E. A. REXSTAD. 1995. **Estimating nest site fidelity among female Black Brant with multi-state modeling and geographic information systems.** Pp. 725–735. (Dept. Biol. Wildl., 211 Irving Bldg., Univ. Alaska, Fairbanks, AK 99775-0180, USA.)—2 methods of analysis both indicated a strong probability that *Branta bernicla nigra* would be faithful to previous nest sites.
- MARTIN, T. E., J. CLOBERT, & D. R. ANDERSON. 1995. **Return rates in studies of life history evolution: are biases large.** Pp. 863–875. (USGS/BRD, Montana Coop. Wildl. Res. Unit., Univ. Montana, Missoula, MT 59812, USA.)—Examination of 11 color-banding studies of passerines revealed that return rates are generally poor estimators of annual survivor probabilities. Recapture/resighting probabilities should be estimated in all studies attempting to estimate annual survival probabilities.
- NICHOLS, J. D., & W. L. KENDALL. 1995. **The use of multi-state capture-recapture models to address questions in evolutionary ecology.** Pp. 835–846. (USGS/BRD, Migr. Bird Res., Patuxent Wildl. Res. Ctr., 11510 American Holly Dr., Laurel, MD 20708-4015, USA.)—To estimate survival rates in populations stratified by location or by state variables estimating movement probabilities for the former and estimation and testing of hypotheses about state specific survival probabilities.
- PEACH, W. J., H. Q. P. QUICK, & J. H. MARCHANT. 1995. **The demography of the decline in the British Willow Warbler population.** Pp. 905–922. (BTO, The Nunnery, Nunnery Pl., Thetford, Norfolk IP24 2PU, UK.)—*Phylloscopus trochilus* territories declined 47% in southern Britain and 7% in northern Britain 1986–1993; the southern decline largely resulted from lower survival rates of adults.
- PENDLETON, G. W., & J. S. SAUER. 1995. **Delineating bird populations using ring recoveries.** Pp. 1049–1055. (USGS/BRD, Patuxent Wildl. Res. Ctr., 11510 American Holly Dr., Laurel, MD 20708, USA.)—Using cluster analysis to group banding sites bases on pairwise comparison of recoveries. This allows a quantitative grouping that can be used to examine relationships of bird distributions at both local and geographic scales. Method demonstrated with *Anas platyrhynchos* recoveries.
- PIPER, S. E. 1995. **A model of the ring-recovery reporting process for the Cape Griffon *Gyps coprotheres*.** Pp. 641–659. (Behav. Ecol. Res. Group, Psychol. Dept., Univ. Natal, Private Bag X10, Dalbridge, KwaZulu-Natal 4014, S. Africa.)—The proportion of birds banded as nestlings and reported dead varied with ring type, use of color rings, and time, with reporting rate increasing from 1950s to mid-1980s. Such sources of variation in the cohort-specific reporting rate could be accommodated by a model incorporating factors for ring type and presence or absence of color rings.
- POLLOCK, K. E., ET AL. 1995. **A capture-recapture survival analysis model for radio-tagged animals.** Pp. 661–672. (Dept. Stat., N. Carolina State Univ., P.O. Box 8203, Raleigh, NC 27695-8203, USA.)—Give generalization of Kaplan-Meier model that allows probabilities of less than 1 that animals may be relocated; example based on data for Canvasbacks, *Aythya valisineria*.
- POLLOCK, K. H., M. J. CONROY, & W. S. HEARN. 1995. **Separation of hunting and natural mortality using ring-return models: an overview.** Pp. 557–566. (Dept. Stat., N. Carolina State Univ., P.O. Box 8203, Raleigh, NC 27695-8203, USA.)—Gives method of using all data from solicited and non-solicited returns to estimate survival rate, solicited recovery rate and reported recovery rate.
- PRADEL, R., E. COOCH, & F. COOKE. 1995. **Transient animals in a resident population of Snow Geese: local emigration or heterogeneity?** Pp. 695–710. (Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC V5A 1S6, Can.)—Data on female *Chen caerulescens* banded in northern Manitoba suggest that significantly lower survival rates in the 1st year after banding were not due to permanent emigration by transients or heterogeneity of individual capture probability, but probably reflect differences between individuals in their response to marking; about 25% of handled birds permanently emigrated from the sample area after capture.
- PRADEL, R., A.-M. REBOULET, & A. VIALLEFONT. 1995. **Testing hypotheses and estimating survival with CR.** Pp. 775–784. (CNRS, Ctr. Ecol. Fonct. & Evol., CEPE L. Emberger, Rte. Mende, BP 5051, F-34033 Montpellier Cedex 1, France.)—Description and example of software program (CR) that provides interaction between a number

- of other programs that by themselves may not supply some of the parameters wanted.
- PUGASEK, B. H., ET AL. 1995. **Mark-resighting analysis of a California Gull population.** Pp. 625–639. (USGS/BRD, Southern Sci. Ctr., 700 Cajundrome Blvd., Lafayette, LA 70506, USA.)—Survival of *Larus californicus* declined with age and could be described with a quadratic function; sex and time did not explain variation in survival.
- RATTISTE, K., & V. LILLELEHT. 1995. **Survival rates of breeding Common Gulls in Estonia.** Pp. 1057–1062. (Inst. Zool. Bot., Riia 181, EE 2400 Tartu, Estonia.)—Age and time-dependent survival of *Larus canus* found for both sexes in one sample, not in another. Intersexual differences in recapture probability found in both studies, probably caused by lower site tenacity of females.
- SCHMUTZ, J. A., ET AL. 1995. **Survival estimation and the effects of dependency among animals.** Pp. 673–639. (USGS/BRD, Alaska Sci. Ctr., 1011 E. Tudor Rd., Anchorage, AK 99503, USA.)—Examine how empirically derived estimates of variance of survival rates are affected by dependence in survival probabilities among individuals. For Black Brant, *Branta bernicla nigricans*, relationship between members of pair caused the empirical variance in survival rate to be 155% larger than for unpaired individuals.
- SCHWARZ, C. J., & B. GANTER. 1995. **Estimating the movement among staging areas of the Barnacle Goose (*Branta leucopsis*).** Pp. 711–724. (Dept. Math. Stat., Simon Fraser Univ., Burnaby, BC V5A 1S6, Can.)—Among 5 areas on the northern coast of Germany.
- SEÑAR, J. C., & J. L. COPETE. 1995. **Mediterranean House Sparrows (*Passer domesticus*) are not used to freezing temperatures: an analysis of survival rates.** Pp. 1069–1074. (Mus. Zool., Ap. Correas 593, E-08080 Barcelona, Spain.)—Survival rate during severe winter of 1984–85 declined sharply to 0.17, but was typically 0.50–0.40 in mild and normal years, respectively.
- SZÉP, T. 1995. **Survival rates of Hungarian Sand Martins and their relationship with Sahel rainfall.** Pp. 891–904. (Dept. Environ. Sci., György Bessenyei Coll., Nyiregyháza, P.O. Box 166, H-4401, Hungary.)—Adult female *Riparia riparia* survived less well than adult males with immigration and emigration of adults having a important effect on local population size. Significant differences in juvenile dispersal suggest separate estimate of juvenile survival necessary.
- VAN NOORDWIJK, A. J. 1995. **On bias due to observer distribution in the analysis of data on natal dispersal in birds.** Pp. 683–694. (Netherlands Inst. Ecol., P.O. Box 40, NL 666ZG, The Netherlands.)—Distribution of observers strongly affects distribution of observed dispersal distances; uses simulation model for reducing observer effects.
- VIALLEFONT, A., E. G. COOCH, & F. COOKE. 1995. **Estimation of trade-offs with capture-recapture models: a case study on the Lesser Snow Goose.** Pp. 847–861. (Ctr. Ecol. Fonct. & Evol., CNRS, BP 5051, 34033 Montpellier Cedex 1, France.)—Analyses of trade-offs between cost of present reproduction on future survival and cost of present reproduction on probability of future breeding for *Chen caerulescens*.

EVOLUTION, SYSTEMATICS, GENETICS, & HYBRIDS

- AGGREY, S. E., & K. M. CHENG. 1995. **Genetic correlation between genetic and parental effects on growth in pigeon squabs.** J. Hered. 86: 70–72. (Avian Genet. Lab., Dept. Anim. Sci., Univ. Brit. Columbia, Suite 248, 2357 Main Mall, Vancouver, BC V6T 1Z4, Can.)—*Columba livia domestica*.
- BAIN, M. 1996. **A mystery warbler in southern Ontario.** Birders J. 5: 134–135. (210 Byron St. N., Whitby, ON L1N 4N1, Can.)—Photographs and description of an apparent *Dendroica fusca* × *Mniotilta varia* at Whitby, ON.—A.L.L.
- BEIER, J., B. LEISLER, & M. WINK. 1997. **[A Great Reed × Reed Warbler (*Acrocephalus arundinaceus* × *Acrocephalus scirpaceus*) hybrid and its parentage.]** J. Ornithol. 138: 51–60. (Schubertstr. 10, D-91320 Ebermannstadt, Germany.)—CR, DNA, biometric and song analyses. (German, Engl. summ.)—P.H.B.
- BHUNYA, S. P., & K. M. DAS. 1991. **Karyological study of four Indian birds.** Caryologia 44: 187–194. (P.G. Dept. Zool., Utkal Univ. Vani Vihar, Bhubaneswar-751 004, India.)—*Ceryle rudis leucomelanura*, *Corvus splendens*, *Nectarinia zeylonica sola*, *Estrilda amandava amandava*.
- BHUNYA, S. P., & M. K. MOHANTY. 1990. **Chromosome evolution in two families of charadriiform birds.** Caryologia 43: 79–85. (P.G. Dept. Zool., Utkal Univ. Vani Vihar, Bhubaneswar-751 004, India.)—Charadriidae: *Vanellus spinosus duvaucelli*, *Pluvialis squatarola*, *Pluvialis fulva*, *Charadrius alexandrinus alexandrinus*; Scolopacidae: *Limosa limosa limosa*.
- BLEIWEISS, R., J. A. W. KIRSCH, & J. C. MATHEUS. 1997. **DNA hybridization evidence for the principal lineages of hummingbirds (Aves: Trochilidae).** Mol. Biol. Evol. 14: 325–343. (Dept. Zool., Univ. Wisconsin, Madison, WI 53706, USA.)—Emeralds plus mountain gems & bees form 1 branch of a group that includes brilliants and coquettes. Mangoes are outside of these, with hermits being the most basal.—J.P.S.
- BOURNE, W. R. P. 1995. **Could the Black-toed Petrel (*Procellaria melanopus*) have been Murphy's Petrel (*Pterodroma ultima*)?** Notornis 42: 48–49.

- (Dept. Zool., Aberdeen Univ., Tillydrone Ave., Aberdeen AB9 2TN, UK).—Probably, but the original specimen of Latham (1785) is missing.—E.O.M.
- BRUCE, J. P., ET AL. 1996. **DNA fingerprinting reveals monogamy in the Bushtit, a cooperatively breeding species.** *Auk* 113: 511–516. (Dept. Biol., McMaster Univ., Hamilton, ON L8S 4K1, Can.)—*Psaltriparus minimus*.
- CLOTFELTER, E. D. 1996. **Mechanisms of facultative sex-ratio variation in Zebra Finches (*Taeniopygia guttata*).** *Auk* 113: 441–449. (Dept. Zool., Univ. Wisconsin, Madison, WI 53706, USA.)—Male-biased ratio attributed to laying sequence and brood reduction.—A.D.A.
- COHN-HAFT, M. 1996. **Why the Ungas Tody-Tyrant (*Hemitriccus spodiops*) is a *Snelthagea*, and why it matters.** *Auk* 113: 709–714. (Dept. Zool. Physiol., 199 Foster Hall, Louisiana State Univ., Baton Rouge, LA 70803, USA.)—External morphology and voice.—C.A.H.
- CORSO, A., & D. FORSMAN. 1997. **Hybrids between Black Kite and Common Buzzard.** *Alula* 3: 44–46. (c/o Alula, P. O. Box 5, FIN-02271 Espoo, Finland).—*Milvus migrans* × *Buteo buteo*.—E.H.
- CROOIJMANS, R. P. M. A., ET AL. 1994. **New microsatellite markers on the linkage map of the chicken genome.** *J. Hered.* 85: 410–413. (Dept. Anim. Breeding, Agric. Univ. Wageningen, Box 338, 6700 AH Wageningen, The Netherlands.)
- DINESEN, L., ET AL. 1994. **A new genus and species of perdicine bird (Phasianidae, Perdicipini) from Tanzania: a relict form with Indo-Malayan affinities.** *Ibis* 136: 2–11. (Zool. Mus., Univ. Copenhagen, Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark).—*Xenoperdix udzungwenis*.
- ELLSWORTH, D. L., R. L. HONEYCUTT, & N. J. SILVY. 1996. **Systematics of grouse and ptarmigan determined by nucleotide sequences of the mitochondrial cytochrome-B gene.** *Auk* 113: 811–822. (Wildl. Genetics Lab., Dept. Wildl. Fish. Sci., Texas A & M Univ., College Station, TX 77843, USA.)
- FLEMING, T. L., J. L. HALVERSON, & J. B. BUCHANAN. 1996. **Use of DNA analysis to identify sex of Northern Spotted Owls (*Strix occidentalis caurina*).** *J. Raptor Res.* 30: 118–122. (NCASI, 23308 NE 148th St., Brush Prairie, WA 98606, USA.)—100% success in blind assessment with 59 birds using cDNA cloning of Z- and W-linked genes.—J.P.S.
- FLINT, P. L., J. B. GRAND, & J. S. SEDINGER. 1996. **Allocation of limited reserves to a clutch: A model explaining the lack of relationship between clutch size and egg size.** *Auk* 113: 939–942. (AK Sci. Ctr., 1011 E Tudor Rd., Anchorage, AK 99503, USA.)—Correlation with body size can confound results.—M.W.
- GRAVES, G. R., & N. L. NEWFIELD. 1996. **Diagnoses of hybrid hummingbirds (Aves: Trochilidae). 1. Characterization of *Calypte anna* × *Stellula caliope* and the possible effects of egg volume on hybridization potential.** *Proc. Biol. Soc. Wash.* 109: 755–763. (Dept. Vert. Zool., Natl. Mus. Nat. Hist., Washington, DC 20560, USA.)—Detailed descriptions and analyses of 2 specimens from Baja California and Louisiana, the latter previously unreported. Egg volume may limit the occurrence of some hybrid combinations.—R.B.C.
- GRAVES, G. R. 1996. **Diagnoses of hybrid hummingbirds (Aves: Trochilidae). 2. Hybrid origin of *Ericoneis soderstromi* Butler.** *Proc. Biol. Soc. Wash.* 109: 764–769. (Dept. Vert. Zool., Natl. Mus. Nat. Hist., Washington, DC 20560, USA.)—*Ericoneis soderstromi* derived from *Ericoneis nigrivestris* × *Ericoneis luciani* and is the 1st intrageneric hybrid in that genus. Plumage and measurements are intermediate between those of the 2 parental species.—R.B.C.
- HAFFER, J. 1997. [Essentialistic and evolutionary thinking in the field of systematic ornithology during the 19th and 20th century.] *J. Ornithol.* 138: 61–72. (Tommesweg 60, D-45149 Essen, Germany.) (German, Engl. summ.)
- HAIG, S. M., J. D. BALLOU, & N. J. CASNA. 1995. **Genetic identification of kin in Micronesian Kingfishers.** *J. Hered.* 86: 423–431. (Dept. Zool. Res., Natl. Zool. Park, Smithsonian Inst., Washington, DC 20008, USA.)—*Halcyon cinnamomina cinnamomina*.
- ITO, S., & M. TSUDZUKI. 1994. **Orange: A plumage color mutation accompanied by semi-lethality in Japanese Quail.** *J. Hered.* 85: 54–56. (Dept. Anim. Sci. & Technol., Gifu Univ., Gifu 501-11, Japan.)—Autosomal recessive in *Coturnix japonica*.—H.H.H.
- KEAST, A., & H. F. RECHER. 1997. **The adaptive zone of the genus *Gerygone* (Acanthizidae) as shown by morphology and feeding habits.** *Emu* 97: 1–17. (Dept. Biol., Queen's Univ., Kingston, Ontario K7L 3N6, Can.)—Evolutionary radiation has produced a largely allopatric assemblage of species.—S.R.P.
- LEVIN, I., ET AL. 1994. **An autosomal genetic linkage map of the chicken.** *J. Hered.* 85: 79–85. (Dept. Microbiol., Mich. State Univ., East Lansing, MI 48824, USA.)—Domestic chicken × Red Jungle Fowl (*Gallus*) line studied.—H.H.H.
- LEVIN, I., L. B. CRITTENDON, & J. B. DODGSON. 1994. **Mapping DNA polymorphisms using PCR primers derived from the sequence of an avian CR1 element.** *J. Hered.* 85: 73–78. (Dept. Microbiol., Mich. State Univ., East Lansing, MI 48824, USA.)—Domestic chicken × Red Jungle Fowl (*Gallus*) line studied.—H.H.H.
- LIVEZEY, B. C. 1996. **A phylogenetic analysis of geese and swans (Anseriformes: Anserinae), including selected fossil species.** *Syst. Biol.* 45: 415–450. (Sect. Birds, Carnegie Mus. Nat. Hist., Pittsburgh, PA. 15213-4080, USA.)—165 morphological characters used to examine evolutionary relationships for 31 taxa. Proposes revised phylogenetic classification of geese and swans.—R.K.

- MACTAVISH, B. 1996. **Hybrid Hermit × Townsend's warbler in Newfoundland.** *Birders J.* 5: 33–34. (37 Waterford, St. John's, NF A1E 1C5, Can.)—Description and photographs of a *Dendroica occidentalis* × *Dendroica townsendi* at Brig Bay on 23 May 1995.—A.L.L.
- MAIJER, S. 1996. **Distinctive song of highland form *maculicollis* of the Red-winged Tinamou (*Rhyncotus rufescens*): evidence for species rank.** *Auk* 113: 695–697. (Ter Meulenplantsoen 20, 7524 CA Enschede, The Netherlands.)
- MARSHALL, H. D., & A. J. BAKER. 1997. **Structural conservation and variation in the mitochondrial control region of fringilline finches (*Fringilla* spp.) and the greenfinch (*Carduelis chloris*).** *Mol. Biol. Evol.* 14: 173–184. (R. Ontario Mus., 100 Queen's Park, Toronto, ON M5S 2C6, Can.)—Evolution rates vary by domain. Some useful for inter- or intrapopulation studies.—M.T.D.
- MARTENS, J., & B. STEIL. 1997. **[Territorial songs and species differentiation in the Lesser Whitethroat superspecies *Sylvia (curruca)*.]** *J. Ornithol.* 138: 1–23. (Inst. f. Zool. d. J. Gutenberg-Univ. Mainz, Saarstr. 21, D-55099 Mainz, Germany.)—Locally sympatric distribution and distinct songs of three subspecies of *Sylvia curruca* (*curruca*, *althaea* and *minula*) warrant designation as different species of the superspecies *Sylvia [curruca]*. (German, Engl. summ.)—P.H.B.
- MARTINS, R. P. 1996. **Taxonomic treatment of endemic taxa in Socotra.** *Sandgrouse* 17: 81–82. (6 Connaught Rd., Norwich NR2 3BP, UK.)—Includes avian taxa.—P.J.C.
- MAYR, E., & W. J. BOCK.* 1994. **Provisional classifications vs. standard avian sequences: heuristics and communication in ornithology.** *Ibis* 136: 12–18. (Dept. Biol. Sci., Columbia Univ., New York, NY 10027, USA.)
- MEEKS, W. A., ET AL. 1996. **Interbreeding of a Tricolored Heron and a Snowy Egret in South Dakota.** *Auk* 113: 955–957. (Dept. Wildl. Fish. Sci., S. Dakota State Univ., Brookings, SD 57007, USA.)—*Egretta tricolor*, *Egretta thula*.
- MILD, K. 1996. **Hybrid or not? Alula 2: 190–191.** (Kopparvägen 23, S-175 72 Järfälla, Sweden.)—*Ficedula hypoleuca* × *Ficedula albicollis* from Finland and comments on identification of such hybrids.—E.H.
- MITTAL, O. P., & V. L. SHARMA. 1989. **Chromosomes of three species of Muscicapidae (Passeriformes).** *Caryologia* 42: 295–302. (Dept. Zool., Punjab Univ., Chandigarh-160 014, India.)—*Chrysomma sinense hypoteucum*, *Prinia socialis stewarti*, *Orthotomus sutorius guzuratus*.
- MOORHOUSE, R. J. 1996. **The extraordinary bill dimorphism of the Huia (*Heteractochia [sic] acutirostris*): sexual selection or intersexual competition?** *Notornis* 43: 19–34. (School Biol. Sci., Victoria Univ., P.O. Box 600, Wellington, NZ.)—Bill dimorphism in this extinct species probably evolved for reduced intersexual competition. Evidence includes an analysis of bill divergence from other callaeids showing that female diverged more than the male, the Huia's monogamous mating system, the absence of other specialist wood-probers in New Zealand, and sexual differences in feeding behaviour.—E.O.M.
- MUNDY, N. I., P. UNITT, & D. S. WOODRUFF. 1997. **Skin from feet of museum specimens as a non-destructive source of DNA for avian genotyping.** *Auk* 114: 126–129. (Dept. Biol. & Ctr. Mol. Genetics, Univ. California-San Diego, La Jolla, CA 92093, USA.)—Successfully analyzed single-locus nuclear markers (microsatellites).—S.K.W.
- NEGRO, J. J., & F. HIRALDO. 1994. **Lack of allozyme variation in the Spanish Imperial Eagle *Aquila adalberti*.** *Ibis* 136: 87–90. (Estación Biol. de Doñana, Apdo. 1056, 41080 Sevilla, Spain.)
- NUNN, G. B., ET AL. 1996. **Evolutionary relationships among extant albatrosses (Procellariiformes: Diomedidae) established from complete cytochrome-B gene sequences.** *Auk* 113: 784–801. (Dept. Ornithol., Amer. Mus. Nat. Hist., Central Pk. W. 79th St., New York, NY 10024, USA.)
- OLSSON, U., P. ALSTRÖM, & P. R. COLSTON. 1993. **A new species of *Phylloscopus* warbler from Hainan Island, China.** *Ibis* 135: 2–7. (Univ. Göteborg, Dept. Zool., Box 25059, S-400 31 Göteborg, Sweden.)—*Phylloscopus hainanus*.
- PRICE, T., & G. L. BIRCH. 1996. **Repeated evolution of sexual color dimorphism in Passerine birds.** *Auk* 113: 842–848. (Dept. Biol. 0116, Univ. California, La Jolla, CA 92093, USA.)—Transition between mono- and dimorphism has occurred at least 150 times based on Sibley/Ahlquist phylogeny.—A.D.A.
- RAUEN, K. A., ET AL. 1994. **Localization of the chicken PgK gene to chromosome 4p by fluorescence [sic] in situ hybridization.** *J. Hered.* 85: 147–150. (Dept. Avian Sci., Univ. Calif. Davis, Davis, CA, 95616, USA.)—Evidence that the sex chromosomes of birds and mammals have independent origins.—H.H.H.
- RHODES, O. E., L. M. SMITH, & M. H. SMITH. 1996. **Relationships between genetic variation and body size in wintering Mallards.** *Auk* 113: 339–345. (Dept. For. Nat. Resour., Purdue Univ. West Lafayette, IN 47907, USA.)—Mass of *Anas platyrhynchos* not related to multilocus heterozygosity.—J.R.F.
- RODGERS, J. A., JR., & P. W. STANGEL. 1996. **Genetic variation and population structure of the endangered Snail Kite in south Florida.** *J. Raptor Res.* 30: 111–117. (Florida Game Fresh Water Fish Comm., 4005 S. Main St., Gainesville, FL 32601, USA.)—Short genetic distances among *Rostrhamus sociabilis* from 4 wetlands suggest little population differentiation.—J.P.S.
- SAITOH, H., M. HARATA, & S. MIZUNO. 1989. **Presence of female-specific bent-repetitive DNA sequences**

- in the genomes of turkey and pheasant and their interactions with W-protein of chicken.** Chromosoma 98: 250–258. (Dept. Agric. Chem., Tohoku Univ. 1-1 Tsutsumidori-Amamiyamachi, Aoba-ku, Sendai 981, Japan.)—W-protein resides on the W (female sex) chromosome of the chicken, *Gallus gallus domesticus*, and interacts with a family of repetitive sequences located on that chromosome. Repetitive sequence families found in turkey, *Meleagris gallopavo*, and Green Pheasant, *Phasianus versicolor*, are about 60% identical in sequence but show interactions with the W-protein similar to chicken.—H.H.H.
- SAITOH, Y., & S. MIZUNO. 1992. **Distribution of XhoI and EcoRI family repetitive DNA sequences into separate domains in the chicken W chromosome.** Chromosoma 101: 474–477. (Dept. Agric. Chem., Tohoku Univ. 1-1 Tsutsumidori-Amamiyamachi, Aoba-ku, Sendai 981, Japan.)—Molecular cytogenetics used to address evolutionary aspects of W (female sex) chromosome structure of *Gallus gallus domesticus*.—H.H.H.
- SAITOH, Y., ET AL. 1991. **Occupancy of the majority of DNA in the chicken W chromosome by bent-repetitive sequences.** Chromosoma 101: 32–40. (Dept. Agric. Chem., Tohoku Univ. 1-1 Tsutsumidori-Amamiyamachi, Aoba-ku, Sendai 981, Japan.)—2 families of repetitive DNA make up 70–90% of the chicken W (female sex) chromosome, *Gallus gallus domesticus*.—H.H.H.
- SEALY, S. G. 1996. **Evolution of host defenses against brood parasitism: implications of puncture-ejection by a small passerine.** Auk 113: 346–355. (Dept. Zool., Univ. Manitoba, Winnipeg, MB R3T 2N2, Can.)—Low cost of egg ejection by *Vireo gilvus* supports evolutionary lag hypothesis for lack of ejection behavior in some host species.—D.C.D.
- SHELDON, F. H., & F. B. GILL. 1996. **A reconsideration of songbird phylogeny, with emphasis on the evolution of titmice and their sylvioid relatives.** Syst. Biol. 45: 473–495. (Mus. Nat. Sci, Louisiana State Univ. Baton Rouge, LA 70803, USA.)—Present a phylogeny of 27 oscine passerines using DNA-DNA hybridization. Support Sibley and Ahlquist's division of the oscines into 2 clades, corvids and passerids, but not their division of the passerids into 3 clades. Conclude seed-caching evolved separately in parids and sittids.—J.D.R.
- STEELE, M. A., ET AL. 1996. **Confidence intervals for the divergence time of two clades.** Syst. Biol. 45: 127–134. (Dept. Math. & Stat., Univ. Canterbury, Christchurch, NZ.)—Use sequence dissimilarity within the orders of ratites and tinamous to demonstrate a technique for generating tighter confidence intervals around the date of divergence of taxa. Includes technique for testing the molecular clock hypothesis.—R.K.
- THESSING, A., & J. EKMAN. 1994. **Selection on the genetical and environmental components of tarsal growth in juvenile Willow Tits (*Parus montanus*).** J. Evol. Biol. 7: 713–726. (Dept. Zool., Univ. Stockholm, S-106 91 Stockholm, Sweden.)—Growth condition is the target of selection.—J.K.B.
- TSUDZUKI, M. 1995. **Brown: A plumage color mutation in Chinese Painted Quail (*Excalfactoria chinensis*).** J. Hered. 86: 307–308. (Dept. Lab. Anim. Sci., Univ. Osaka Prefecture, Sakai, Osaka 593, Japan.)
- TSUDZUKI, M. 1995. **Light down lethal: A new autosomal recessive down color mutation in Japanese Quail.** J. Hered. 86: 305–306. (Dept. Lab. Anim. Sci., Univ. Osaka Prefecture, Sakai, Osaka 593, Japan.)—*Coturnix japonica*.
- TSUDZUKI, M. 1995. **Light gray: A plumage color mutation of Chinese Painted Quail (*Excalfactoria chinensis*).** J. Hered. 86: 68–70. (Dept. Lab. Anim. Sci., Univ. Osaka Prefecture, Sakai, Osaka 593, Japan.)
- TSUDZUKI, M. 1995. **New findings in the stumpy-limb mutation of Japanese Quail.** J. Hered. 86: 66–68. (Dept. Lab. Anim. Sci., Univ. Osaka Prefecture, Sakai, Osaka 593, Japan.)—Autosomal recessive in *Coturnix japonica*.—H.H.H.
- TSVELYKH, A. N. 1996. **[Morphological analysis of Crimean Blackcaps *Sylvia atricapilla*: taxonomic status and displacement of characters due to competition.]** Zool. Zh. 75: 926–932. (Inst. Zool., Natl. Ukrainian Acad. Sci., Kiev, Ukraine.)—*Sylvia atricapilla dammholzi*. (Russian, Engl. summ.)
- WARD, D., A. K. LINDHOLM, & J. M. N. SMITH. 1996. **Multiple parasitism of the Red-winged Blackbird: further experimental evidence of evolutionary lag in a common host of the Brown-headed Cowbird.** Auk 113: 408–413. (Mitrani Ctr. Desert Ecol., Jacob Blaustein Inst. Desert Res., Ben Gurion Univ. Neg-ev, Sede Boqer 84990, Israel.)—*Agelaius phoeniceus* did not reject eggs of *Molothrus ater* from singly- or multiply-parasitized nests.—D.C.D.
- WOOD, T. C., & C. KRAJEWSKI. 1996. **Mitochondrial DNA sequence variation among the subspecies of Sarus Crane (*Grus antigone*).** Auk 113: 655–663. (Dept. Zool., South. Illinois Univ., Carbondale, IL 62901, USA.)—Absence of phylogenetic structure in haplotype trees implies short time since isolation of subspecies.—M.W.

FEEDING BEHAVIOR, DIET, & PREDATORS

- AVERY, M. L. 1996. **Food avoidance by adult House Finches, *Carpodacus mexicanus*, affects seed preferences of offspring.** Anim. Behav. 51: 1279–1283. (USDA/APHIS, Denver Wildl. Res. Ctr., Fla Field Stn., 2820 E. Univ. Ave., Gainesville, FL 32641, USA.)
- BÓ, M. S., S. M. CICCHINO, & M. M. MARTINEZ. 1996. **Diet of Long-winged Harrier (*Circus buffoni*) in southeastern Buenos Aires Province, Argentina.** J. Raptor Res. 30: 237–239. (Dept. Biol., Fac. Cienc.

- Exactas Nat., Univ. Nacl. Mar del Plata, Funes 3350-(7600) Mar del Plata, Argentina.)
- BARDON, K. 1996. **Yellow-billed Loon killed by adult Bald Eagle.** *Loon* 68: 61. (1430 100th Ave. NW #212, Coon Rapids, MN 55433, USA.)—*Gavia adamsii*, *Haliaeetus leucocephalus*.
- BAYNE, E. M., & R. M. BRIGHAM. 1995. **Prey selection and foraging constraints in Common Poorwills (*Phalaenoptilus nuttallii*: Aves: Caprimulgidae).** *J. Zool., Lond.* 235:1–8. (Dept. Biol., Univ. Regina, Regina, SK S4S OA2, Canada.)—Low light levels constrain poorwills to taking invertebrate prey above a certain size; above this threshold, they select prey for type and size.—J.K.B.
- BLANCO, D. E., P. YORIO, & P. D. BOERSMA. 1996. **Feeding behavior, size asymmetry, and food distribution in Magellanic Penguin (*Spheniscus magellanicus*) chicks.** *Auk* 113: 496–498. (Humedales para las America, Monroe 2142, Capital Federal, 1428, Argentina.)—If nestmates differ in size, larger chick is fed more. Unknown whether result of competition or parental preference.—D.C.D.
- BOSAKOWSKI, T., & D. G. SMITH. 1996. **Group hunting forays of wintering Northern Harriers, *Circus cyaneus*: an adaptation of juveniles?** *Can. Field-Nat.* 110: 310–313. (Beak Consultants, Inc., 12931 NE 126th Pl., Kirkland, WA 98034, USA.)
- BROWN, K. P., ET AL. 1996. **Sign left by brushtail possums after feeding on bird eggs and chicks.** *N. Z. J. Ecol.* 20: 277–284. (Ecosystems Consultants, P.O. Box 6161, Dunedin, NZ.)—Predation by possums distinguishable from that of ship rats *Rattus rattus* in all but 11% of shell remains from feeding trials. Also differ in the way they leave a bird carcass after feeding.—E.O.M.
- BUCHANAN, J. B. 1996. **A comparison of behavior and success rates of Merlins and Peregrine Falcons when hunting Dunlins in two coastal habitats.** *J. Raptor Res.* 30: 93–98. (Cascadia Res. Collective, 218½ W. Fourth Ave., Waterstreet Bldg., Olympia, WA 98501, USA.)—*Falco columbarius* less efficient than *Falco peregrinus* when hunting *Calidris alpina*; both falcons hunt more efficiently in estuaries than on beaches.—J.P.S.
- BUCKLEY, N. J. 1996. **Food finding and the influence of information, local enhancement, and communal roosting on foraging success of North American vultures.** *Auk* 113: 473–488. (Dept. Zool., Univ. Oklahoma, Norman, OK 73019, USA.)—*Cathartes aura* and *Coragyps atratus* forage differently; foraging is enhanced by acting in groups.—A.D.A.
- BURTON, A. M., & P. OLSEN. 1997. **Niche partitioning by two sympatric goshawks in the Australian wet tropics: breeding season diet.** *Wildl. Res.* 24: 45–52. (Dept. Zoology, James Cook Univ., Townsville, Qld 4811, Australia.)—Possible explanations for high (93%) dietary overlap between Grey and Brown goshawks, *Accipiter novaehollandiae* and *Accipiter fasciatus*.—M.G.B.
- CAMPBELL, B., & A. B. ROSE. 1996. **Diet of the Southern Boobook *Ninox novaeseelandiae* on the north coast of New South Wales [Australia].** *Aust. Bird Watcher* 16: 349–351. (Greenloaning Biostudies, Kyogle Rd., Tuncester via Lismore, NSW 2480, Australia.)—Mainly insects with some small mammals.—I.D.E.
- CARSS, D. N., & J. D. GODFREY. 1996. **Accuracy of estimating the species and sizes of Osprey prey: a test of methods.** *J. Raptor Res.* 30: 57–61. (Inst. Terrestrial Ecol., Hill Brathens, Glassel, By Banchory, Kincardineshire, AB31 4BY, Scotland, UK.)—*Pandion haliaetus*.
- CHAVEZ-RAMIREZ, F., & R. D. SLACK. 1996. **Winter phenology and frugivory of American Robins and Cedar Waxwings on the Edwards Plateau of central Texas.** *Texas J. Sci.* 48: 129–136. (Dept. Wildl. Fish. Sci., Texas A&M Univ., College Station, TX 77843-2258, USA.)—*Turdus migratorius*, *Bombycilla cedrorum*.
- CLARK, R., A. BOURGONJE, & H. CASTELIJNS. 1993. **Food niches of sympatric Marsh Harriers *Circus aeruginosus* and Hen Harriers *Circus cyaneus* on the Dutch coast in winter.** *Ibis* 135: 424–431. (Dept. Envir. & Evol. Biol., Univ. Liverpool, Port Erin Mar. Lab., Port Erin, Isle of Man, UK.)
- CLAYTON, N. S., & D. A. CRISTOL*. 1996. **Effects of photoperiod on memory and food storing in captive Marsh Tits, *Parus palustris*.** *Anim. Behav.* 52: 715–726. (Dept. Biol., Coll. William & Mary, Williamsburg, VA 23187-8795, USA.)
- CROSSLAND, D. R., & S. P. VANDER KLOET. 1996. **Berry consumption by the American Robin, *Turdus migratorius*, and the subsequent effect on seed germination, plant vigour, and dispersal of the low-bush blueberry, *Vaccinium angustifolium*.** *Can. Field-Nat.* 110: 303–309. (Dept. Biol., Acadia Univ., Wolfville, NS B0P 1X0, Can.)
- CROXALL, J. P., ET AL. 1995. **The food and feeding ecology of the White-chinned Petrel *Procellaria aequinoctialis* at South Georgia.** *J. Zool., Lond.* 237: 133–150. (Brit. Antarctic Surv., NERC, High Cross, Madingley Rd., Cambridge CB3 0ET, UK.)
- DAVIS, W. M. 1996. **Sabine's Gull in the Oklahoma Panhandle opportunistically feeds on grasshoppers.** *Bull. Oklahoma Ornithol. Soc.* 29: 35–36. (5911 E. 46th St., Tulsa, OK 74135, USA.)—*Xema sabini* and unidentified grasshopper.—R.B.C.
- DEBLINGER, R. D., & W. ALLDREDGE. 1996. **Golden Eagle predation on pronghorns in Wyoming's Great Divide Basin.** *J. Raptor Res.* 30: 157–159. (Dept. Fish. Wildl. Biol., Colorado State Univ., Ft. Collins, CO 80523, USA.)—Document 1 summer and 6 winter attacks by *Aquila chrysaetos* resulting in 3 kills of 2 fawns and a 20–21 month male *Antilocapra americana*.—J.P.S.
- DOBROWOLSKI, K. A., B. LEZNICKA, & R. HALBA. 1996. **Natural food of ducks and coots in shallow, macrophyte dominated lakes in Luknajo Masurian**

- Lakeland, Poland. Ecol. pol. 44: 271–287. (Inst. Ecol. PAS, 05-092 Lomianki, Poland.)—Daily ingestion of organic matter, inorganic matter, calcium, phosphorus, potassium and sodium by *Fulica atra*, *Anas platyrhynchos*, *Aythya ferina* and *Netta rufina*. These waterfowl have important influences on input of Ca and P to lake.—J.P.
- DUKE, G. E., ET AL. 1996. **Variability among individual American Kestrels (*Falco sparverius*) in parts of day-old chicks eaten, pellet size, and pellet egestion frequency.** J. Raptor Res. 30: 213–218. (Dept. Vet. Pathol., Univ. Minnesota, St. Paul, MN 55108, USA.)—Study of 7 captive, yearling males.—J.P.S.
- ENS, B. J., PIERSMA, T. & R. H. DRENT. 1994. **The dependence of waders and wildfowl migrating along the east atlantic flyway on their coastal food supplies: what is the most profitable research programme?** Orphelia Suppl. 6: 127–151. (Inst. For. & Nat. Res. (IBN-DLO), P.O. Box 167, NL-1790 AD Den Burg, The Netherlands.)—Models that predict the effects of habitat change on population dynamics—J.K.B.
- FLESKES, J. P., & E. E. KLAAS. 1993. **Remains of ducks and other prey found near fox and mink dens on an Iowa wildlife refuge.** Prairie Nat. 25: 43–50. (North. Prairie Wildl. Res. Ctr., Dixon Field Stn., 6924 Tremont Rd., Dixon, CA 95620, USA.)—Primarily *Anas* spp. & *Phasianus colchicus*, with some passerines.—S.W.G.
- FOX, A. D. 1993. **Pre-nesting feeding selectivity of Pink-footed Geese *Anser brachyrhynchus* in artificial grasslands.** Ibis 135: 417–423. (Wildfowl & Wetlands Trust, Slimbridge, Gloucester GL2 7BT, UK.)—Diet in southern Iceland.—J.V.B.
- GALBRAITH, H., ET AL. 1993. **Diet and habitat use of the Dotterel *Charadrius morinellus* in Scotland.** Ibis 135: 148–155. (Res. & Advisory Serv. Directorate, Scottish Nat. Heritage, Anderson Pl., Edinburgh EH6 5NP, UK.)
- GLADWELL, R. 1996. **Piracy on Short-eared Owls by Carrion Crow.** Scottish Birds 18 (Raptor Round Up suppl.): 16. (No address given)—*Asio flammeus*, *Corvus corone*.—P.J.C.
- GOULD-BEIERLE, K. L., & A. C. KAMIL. 1996. **The use of local and global cues by Clark's Nutcrackers, *Nucifraga columbiana*.** Anim. Behav. 52: 519–528. (Sch. Biol. Sci., Univ. Nebraska, Lincoln, NE 68588-0118, USA.)—Global cues more important when searching for hidden food.—A.K.T.
- GREEN, K., & R. WILLIAMS. 1997. **Biology of the Heard Island Shag *Phalacrocorax nivalis*. 3. Foraging, diet and diving behaviour.** Emu 97: 76–83. (NPWS, Snowy Mountains Region, Priv. Mail Bag, Cooma, NSW 2630, Australia.)—Feeds mainly on scale worms (Polychaeta: Polynoidae) during non-breeding season, prefers fish diet when breeding.—S.R.P.
- HAFNER, H., ET AL. 1993. **Flock feeding and food intake in Little Egrets *Egretta garzetta* and their effects on food provisioning and reproductive success.** Ibis 135: 25–32. (Stn. Biol. de la Tour du Valat, Le Sambuc, F-13200 Arles, France.)—Birds feed in flocks in early morning when main prey concentrated, but forage solitarily later in day as prey disperse.—J.V.B.
- HAWKINS, J. A., & G. RITCHISON. 1996. **Provisioning of nestlings by male and female Downy Woodpeckers.** Kentucky Warbler 72: 79–81. (Dept. Biol. Sci., East. Kentucky Univ., Richmond, KY 40475, USA.)—*Picoides pubescens*.
- HOGAN, K. M., ET AL. 1996. **Notes on the diet of Short-eared Owls (*Asio flammeus*) in Texas.** J. Raptor Res. 30: 102–104. (USFWS, Lower Rio Grande NWR, Rt. 2, Box 202A, Alamo, TX 78516, USA.)—Examination of 48 pellets revealed 29 mammals, 1 icterid bird, and 8 Orthoptera.—J.P.S.
- HURLEY, T. A. 1996. **Spatial memory in Rufous Hummingbirds: memory for rewarded and non-rewarded sites.** Anim. Behav. 51: 177–183. (Dept. Biol. Sci., Univ. Lethbridge, Lethbridge, AB T1K 3M4, Can.)—*Selasphorus rufus*.
- HURLY, T. A., & S. HEALY*. 1996. **Memory for flowers in Rufous Hummingbirds: location or local visual cues?** Anim. Behav. 51: 1149–1157. (Dept. Psychol., Univ. Newcastle, Newcastle NE1 7RU, UK.)—*Selasphorus rufus*.
- JOYEUX, A. 1996. **[Yellow-legged Gull *Larus cachinnans* eating cherries.]** Faune de Provence 17: 112. (18 rue Jardin de Notre Dame, 83260 La Crau, France.) (French)
- KÄLLANDER, H. 1993. **Commensal feeding associations between Yellow Wagtails *Motacilla flava* and cattle.** Ibis 135: 97–100. (Dept. Zool., Univ. Lund, Ecol. Bldg., S-223 62 Lund, Sweden.)
- KEELING, L. J., & J. F. HURNIK. 1996. **Social facilitation acts more on the appetite than the consummatory phase of feeding behaviour in domestic fowl.** Anim. Behav. 52: 11–15. (Dept. Anim. Hygiene, Swedish Univ. Agric. Sci., P.O. Box 345, Skara 532 24, Sweden.)—*Gallus gallus domesticus*.
- KO, S.-J., H.-S. OH, & H.-S. PARK. 1994. **[An analytic study on the relationship between a deciduous broad-leaved forest and foraging niche of the birds.]** Kor. J. Ornithol. 1: 35–55. (Dept. Sci. Education, Cheju Univ., Cheju 690-756, Korea.)—Study of seasonal changes in foraging in 40 species of birds. (Korean, Engl. summ.)—J.V.B.
- KOOPS, M. A., & L.-A. GIRALDEAU. 1996. **Producer-scrounger foraging games in Starlings: a test of rate-maximizing and risk-sensitive models.** Anim. Behav. 51: 773–783. (Dept. Zool., Univ. Manitoba, Winnipeg, MB R3T 2N2, Can.)—*Sturnus vulgaris*.
- KUMAR, S. 1996. **Unusual interaction between wolf and Short-toed Eagle.** J. Raptor Res. 30: 41–42. (Bombay Nat. Hist. Soc., Hornbill House, Shaheed Bhagat Singh Rd., Bombay 400 023, India.)—*Circus gallicus* attempted to steal prey or pups from

- family of *Canus lupus* but was caught and killed by male wolf.—J.P.S.
- LADLEY, J. J., & D. KELLY. 1996. **Dispersal, germination and survival of New Zealand mistletoes (Loranthaceae): dependence on birds.** *N. Z. J. Ecol.* 20: 69–79. (Plant Microb. Sci., Univ. Canterbury, Priv. Bag, Christchurch 1, NZ.)—Germination requires removal of exocarp by passage through bird's gut.—E.O.M.
- LAHTI, K., & S. RYTKÖNEN. 1996. **Presence of conspecifics, time of day and age affect Willow Tit food hoarding.** *Anim. Behav.* 52: 631–636. (Dept. Biol., Univ. Oulu, Linnanmaa, FIN-90570 Oulu, Finland.)—*Parus montanus*.
- LARSEN, T. 1993. **Information parasitism in foraging Bar-tailed Godwits *Limosa lapponica*.** *Ibis* 135: 271–276. (Dept. Ecol., Mus. Zool., Univ. Bergen, N-5007 Bergen, Norway.)—By following *Numenius phaeopus*.—J.V.B.
- LEARY, A. W., A. L. JERMAN, & R. MAZAIKA. 1996. **Gulls (*Larus* spp.) in the diet of Ferruginous Hawks.** *J. Raptor Res.* 30: 105. (Raptor Res. Ctr., Dept. Biol., Boise State Univ., Boise, ID 83725, USA.)—Consumption of primarily juvenile *Larus californicus* and *Larus delawarensis* confirmed at 3 *Buteo regalis* nest sites in Washington.—J.P.S.
- LEPSCHI, B. J. 1997. **Food of some birds in southern Australia: Additions to Barker & Vestjens, Part 2.** *Emu* 97: 84–87. (24 Fullwood St., Weston, ACT 2611, Australia.)—Additions to standard reference on subject.—S.R.P.
- LICHT, D. S., & K. M. JOHNSON. 1992. **Black-billed Magpie predation on Piping Plover eggs.** *Prairie Nat.* 24: 285. (USFWS, 1500 Capitol Ave., Bismarck, ND 58501, USA.)—*Pica pica*, *Charadrius melodus*.
- LISTON, T. M. 1996. **Bald Eagle attacks Osprey nestlings.** *Loon* 68: 238–239. (725 E. 70th St., Kansas City, MO 64131, USA.)—*Haliaeetus leucocephalus*, *Pandion haliaeetus*.
- LITTLE, G. T. 1989. **Common Grackles kill House Sparrow.** *Mississippi Kite* 19: 8–9. (812 Polk St., Vicksburg, MS 39180, USA.)—*Quiscalus quiscula*, *Passer domesticus*.
- MÍNGUEZ, E. 1996. **Nestling feeding strategy of the British Storm-petrel *Hydrobates pelagicus* in a Mediterranean colony.** *J. Zool.* 239: 633–643. (Mus. Nac. Cienc. Nat. (CSIC), J. Gutiérrez Abascal 2, E-28006 Madrid, Spain.)—Food requirements and feeding patterns different from North Atlantic colonies.—A.J.M.
- MARPLES, N. M., & T. J. ROPER*. 1996. **Effects of novel colour and smell on the response of naive chicks towards food and water.** *Anim. Behav.* 51: 1417–1424. (Dept. Biol. Sci., Univ. Sussex, Brighton BN1 9QG, UK.)—Pyrazine odors enhanced fear of novelty in *Gallus gallus domesticus* when presented with novel-looking prey.—A.K.T.
- MARZLUFF, J. M., B. HEINRICH, & C. S. MARZLUFF. 1996. **Raven roosts are mobile information centres.** *Anim. Behav.* 51: 89–103. (Sustainable Ecosystems Inst., 13045 Cholla Dr., Kuna, ID 83634, USA.)—Several lines of evidence indicate that native *Corvus corax* follow experienced birds to carcasses.—A.K.T.
- MORRISON, M. L., ET AL. 1989. **Bird foraging on incense-cedar and incense-cedar scale during winter in California.** USDA, For. Serv. Res. Paper PSW-RP-195. (Pacific SW Res. Stn.: P.O. Box 245, Berkeley, CA 94701-0245, USA.)
- OLIOSO, G. 1996. **[Red-backed Shrike *Lanius collurio* eating ants.]** *Faune de Provence* 17: 111. (le Mail, 26230 Grignan, France.) (French)
- OYAN, H. S., & T. ANKER-NILSSEN. 1996. **Allocation of growth in food-stressed Atlantic Puffin chicks.** *Auk* 113: 830–841. (Norwegian Inst. Nat. Res., Tungasletta 2, N-7005 Trondheim, Norway.)—*Fratercula arctica* chicks grew more slowly in all characters measured, but growth rates of head and wing characters were least affected. Food stress also affected fat deposition.—D.C.D.
- PALTRIDGE, R., D. GIBSON, & G. EDWARDS. 1997. **Diet of the Feral Cat (*Felis catus*) in central Australia.** *Wildl. Res.* 24: 67–76. (Pks. Wildl. Comm. NT, P.O. Box 1046, Alice Springs, NT 0871, Australia.)—Birds occurred in 14% of stomach samples and represented 6.8% of the total mass of food items. 11 bird species taken, predominantly ground feeders and those that frequently drink at waterholes.—M.G.B.
- PENNAZ, T., & C. PENNAZ. 1996. **Bald Eagle predation on Common Loon.** *Loon* 68: 69–70. (208 74th Ave. N., Brooklyn Park, MN 55444, USA.)—*Haliaeetus leucocephalus*, *Gavia immer*.
- PERKINS, D. W., D. M. PHILLIPS, & D. K. GARCELON. 1996. **Predation on a Bald Eagle nestling by a Red-tailed Hawk.** *J. Raptor Res.* 30: 249. (Inst. Wildl. Studies, P.O. Box 1104, Arcata, CA 95518, USA.)—Adult *Buteo jamaicensis* took nestling while adult *Haliaeetus leucocephalus* in attendance at nest. Eagle chased hawk and retrieved dead nestling, then hawk again tried unsuccessfully to steal nestling.—J.P.S.
- PETERSON, S. W. 1989. **Barred Owl eats hatchling turtle.** *Mississippi Kite* 19: 4–5. (Mississippi Mus. Nat. Sci., 111 N. Jefferson St., Jackson, MS 39202, USA.)—*Strix varia* had hatchling of *Pseudemys concinna* in the stomach.—T.M.
- PETYT, C. 1996. **Behaviour of seabirds around fishing trawlers in New Zealand subantarctic waters.** *Notornis* 42: 99–115. (Tukurua, Takaka R.D.2, Golden Bay, NZ.)
- POULIN, B., & G. LEFEBVRE. 1996. **Dietary relationships of migrant and resident birds from a humid forest in Central Panama.** *Auk* 113: 277–287. (Smithsonian Trop. Res. Inst., P.O. Box 2072, Balboa, Ancon, Rep. of Panama.)
- RECHER, H. F., & W. E. DAVIS. 1997. **Foraging ecology of a mulga bird community.** *Wildl. Res.* 24: 27–43.

- (Dept. Environ. Manage., Edith Cowan Univ., Jondalup, WA 6027, Australia.)—Data on foraging and habitat use for 24 species near Alice Springs, Australia in late winter 1995; mulga and eucalyptus forest guilds compared.—M.G.B.
- ROBERTS, W. M. 1996. **Hummingbirds' nectar concentration preferences at low volume: the importance of time scale.** *Anim. Behav.* 52: 361–370. (Dept. Ecol. Evol. Biol., Princeton Univ., Princeton, NJ 08544-1003, USA.)—*Selasphorus rufus*.
- ROBERTSON, G., ET AL. 1994. **Diet composition of Emperor Penguin chicks *Aptenodytes forsteri* at two Mawson Coast colonies, Antarctica.** *Ibis* 136: 19–31. (Australian Antarctic Div., Channel Highway, Kingston, Tasmania 7050, Australia.)
- ROCHE, J. P. 1996. **Patch-leaving decisions in Black-capped Chickadees.** *Anim. Behav.* 52: 289–298. (Ctr. Integrative Study Anim. Behav., Indiana Univ., 402 N. Park. Ave., Bloomington, IN 47405, USA.)—*Parus atricapillus*.
- ROHWEDER, D. A., & P. R. BAVERSTOCK. 1996. **Preliminary investigation of nocturnal habitat use by migratory waders (Order Charadriiformes) in northern New South Wales.** *Wildl. Res.* 23: 169–184. (Ctr. Conserv. Technol., South. Cross Univ., P.O. Box 157, East Lismore, NSW 2480, Australia.)
- ROSE, A. B., & R. H. ELDRIDGE. 1997. **Diet of the Tawny Frogmouth *Podargus strigoides* in Eastern New South Wales [Australia].** *Aust. Bird Watcher* 17: 25–33. (Aust. Mus., 6–8 College St., Sydney, NSW 2000, Australia.)—Road kill data show mainly insects. Some evidence of pesticide poisoning.—I.D.E.
- ROSE, A. B. 1996. **Notes on the diet of the Barn Owl *Tyto alba* in New South Wales.** *Aust. Bird Watcher* 16: 327–331. (Aust. Mus., 6–8 College St., Sydney, NSW 2000, Australia.)—Rodents predominate plus other small vertebrates and some invertebrates.—I.D.E.
- ROSE, A. B. 1996. **Notes on the diet of the Southern Boobook *Ninox novaeseelandiae* in New South Wales [Australia].** *Aust. Bird Watcher* 16: 339–343. (Aust. Mus., 6–8 College St., Sydney, NSW 2000, Australia.)—Mainly invertebrates; pellets contained higher proportion of vertebrates than stomach samples.—I.D.E.
- SØRENSEN, M. F. L. 1997. **Niche shifts of Coal Tits *Parus ater* in Denmark.** *J. Avian Biol.* 28: 68–72. (Dept. Pop. Biol., Zool. Inst., Copenhagen Univ., Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark. E-mail: Martin.F.L.Sorensen@pop.zi.ku.dk)—Foraging behavior of Coal Tits in presence and absence of *Parus cristatus*, *Parus palustris* and *Parus major*.—R.T.B.
- SEIJAS, A. E. 1996. **Feeding of the Bat Falcon (*Falco ruficularis*) in an urban environment.** *J. Raptor Res.* 30: 33–35. (UNELLEZ, Mesa de Cavacas, Guanare, Portuguesa, Venezuela.)—Prey remains collected under perches used by a pair and juvenile.—J.P.S.
- SERRACÍN A., R., & S. I. TIRANTI. 1996. **Stomach contents of a Swainson's Hawk from Argentina.** *J. Raptor Res.* 30: 105–106. (Dept. Cienc. Nat., Univ. Nacl. La Pampa, Uruguay 151, 6300 Santa Rosa, La Pampa, Argentina.)—Acridid grasshoppers dominate sample from *Buteo swainsoni*.—J.P.S.
- SHEFFIELD, S. R., & N. JOBE. 1996. **Winter carrion feeding of Red-tailed Hawks in Oklahoma.** *J. Raptor Res.* 30: 43–44. (Dept. Zool., Oklahoma State Univ., Stillwater, OK 74078, USA.)—3 *Buteo jamaicensis* observed feeding on fish carcasses, road-killed domestic cat and *Sylvilagus floridanus*.—J.P.S.
- SKAGEN, S. K., & H. D. OMAN. 1996. **Dietary flexibility of shorebirds in the western hemisphere.** *Can. Field-Nat.* 110: 419–444. (Midcontinent Ecol. Sci. Ctr., 4512 McMurry Ave., Fort Collins, CO 80525-3400, USA.)
- SMITH, A. E., & M. R. J. HILL. 1996. **Polar Bear, *Ursus maritimus*, depredation of Canada Goose, *Branta canadensis*, nests.** *Can. Field-Nat.* 110: 339–340. (Dept. Wildl. Ecol., 1630 Linden Dr., Room 226, Univ. Wisconsin, Madison, WI 53706, USA.)
- SPILLING, E., H.-H. BERGMANN, & M. STOCK. 1994. **Diet of Dark-bellied Brent Geese (*Branta bernicla bernicla*) in the Piassina delta, Taimyr, Siberia.** *IWRB Goose Res. Group Bull.* 5: 18–25. (Univ. Osnabrück, P.O.Box 4469, D-49069 Osnabrück, Germany.)
- THIBAUT, J.-C., J.-D. VIGNE, & J. TORRE. 1993. **The diet of young Lammergeiers *Gypaetus barbatus* in Corsica: its dependence on extensive grazing.** *Ibis* 135: 42–48. (Parc naturel de la Corse, B.P. 417, F-20184 Ajaccio, Corsica, France.)—Domestic ungulates main prey.—J.V.B.
- THORSTROM, R. 1996. **Fruit-eating behavior of a Barred Forest-falcon.** *J. Raptor Res.* 30: 44. (The Peregrine Fund, 5666 W. Flying Hawk Ln., Boise, ID 83709, USA.)—Incubating female *Micrastur ruficollis* feeds on fruits of *Tikalía (Blomia) prisca* in Guatemala.—J.P.S.
- TIEBOUT, H. M., III. 1996. **Costs and benefits of interspecific dominance rank: are subordinates better at finding novel food locations?** *Anim. Behav.* 51: 1375–1381. (Dept. Biol., West Chester Univ., West Chester, PA 19383, USA.)—Dominant Steely-vented Hummingbirds, *Amazilia saucerrottei*, and subordinate Fork-tailed Emerald, *Chlorostilbon canivetti*, equally good at finding food.—A.K.T.
- TURPIE, J. K., & P. A. R. HOCKEY. 1993. **Comparative diurnal and nocturnal foraging behaviour and energy intake of premigratory Grey Plovers *Pluvialis squatarola* and Whimbrels *Numenius phaeopus* in South Africa.** *Ibis* 135: 156–165. (Percy FitzPatrick Inst. African Ornithol., Univ. Cape Town, Rondebosch 7700, South Africa.)—Over 40% of daily energy intake through nocturnal foraging.—J.V.B.

- VAN EERDEN, M. R., PIERSMA, T., & R. UNDEBOOM. 1993. **Competitive food exploitation of smelt *Osmerus eperianus* by Great Crested Grebes *Podiceps cristatus* and perch *Perca fluviatilis* at Lake IJsselmeer, The Netherlands.** *Oecologia* 93: 463–474. (Min. Transport & Pub. Works, Dir., Flevoland, P.O. Box 600, 8200 AP Lelystad, The Netherlands.)
- VAN HEEZIK, Y. M., & P. J. SEDDON. 1996. **Scramble feeding in Jackass penguins: within-brood food distribution and the maintenance of sibling asymmetries.** *Anim. Behav.* 51: 1383–1390. (Natl. Wildl. Res. Ctr., PO Box 1086, Taif, Saudi Arabia.)—*Spheniscus demersus*.
- VAN'T HUL, J. T., & J. A. JENKS. 1992. **Food habits of Mourning Doves in east central South Dakota.** *Prairie Nat.* 24: 251–256. (Texas Coop. Fish Wildl. Res. Unit, Texas Tech Univ., Lubbock, TX 79409, USA.)—*Zenaidura macroura*; primarily green foxtail (*Setaria viridis*) and yellow foxtail (*Setaria glauca*).—S.W.G.
- WAITE, T. A., & R. C. YDENBERG. 1996. **Foraging currencies and the load-size decision of scatterhoarding Grey Jays.** *Anim. Behav.* 51: 903–916. (Sch. For., Michigan Technol. Univ., Houghton, MI 49931-1295, USA.)—*Perisoreus canadensis*.
- WALKER, K., ET AL. 1995. **Satellite tracking of Wandering Albatross (*Diomedea exulans*) from Auckland Islands: preliminary results.** *Notornis* 42: 127–137. (549 Rocks Rd., Nelson, NZ.)—Foraging flights of 3 females involved long outward and return journeys with less rapid movement during the feeding phase.—E.O.M.
- WANLESS, S., M. P. HARRIS, & A. F. RUSSELL. 1993. **Factors influencing food-load sizes brought in by Shags *Phalacrocorax aristotelis* during chick rearing.** *Ibis* 135: 19–24. (Inst. Terrestrial Ecol., Hill of Brathens, Banchoory, Kincardineshire AB31 4BY, UK.)—Foraging distance from colony and brood biomass explain most variation in load sizes.—J.V.B.
- WATSON, J., A. F. LEITCH, & S. R. RAE. 1993. **The diet of Golden Eagles *Aquila chrysaetos* in Scotland.** *Ibis* 135: 387–393. (Scottish Nat. Heritage, 9 Culduthel Rd., Inverness IV2 4AG, UK.)
- WAYNE, W. J. 1996. **Sharp-shinned Hawk preys on large rat.** *Delmarva Ornithol.* 28: 25. (12 Owls Nest Rd., Centerville, DE 19807, USA.)—*Accipiter striatus*, *Rattus* sp.—R.B.C.
- WELSTEAD, J. W. 1994. **Barnacle Goose grazing on vegetation dynamics.** *IWRB Goose Res. Group Bull.* 5: 31–34. (Dept. Biol. Sci., Univ. Durham, Durham DH1 3LE, UK.)—*Branta leucopsis*.
- WHITE, K. 1996. **Comparison of fledging success and sizes of prey consumed by Spotted Owls in northwestern California.** *J. Raptor Res.* 30: 234–236. (Dept. Wildl., Humboldt State Univ., Arcata, CA 95521, USA.)—*Strix occidentalis*.
- WILLIAMS, P. A., & B. J. KARL. 1996. **Fleshy fruits of indigenous and adventive plants in the diets of birds in forest remnants, Nelson, New Zealand.** *N. Z. J. Ecol.* 20: 127–145. (Manaaki Whenua—Landcare Res., Priv. Bag 6, Nelson, NZ.)—Adventive bird species eat the most adventive plant fruits and distribute weed species not suitable for endemic birds. They may also help disperse indigenous fruits into early succession vegetation.—E.O.M.
- WITMER, M. C. 1996. **Annual diet of Cedar Waxwings based on U.S. Biological Survey records (1885–1950) compared to diet of American Robins: contrasts in dietary patterns and natural history.** *Auk* 113: 414–430. (Sec. Ecol. Syst., Corson Hall, Cornell Univ., Ithaca, NY 14853, USA.)—Contrasting digestive habits in *Bombcilla cedrorum* and *Turdus migratorius* correspond to timing of breeding in relation to food availability.—M.L.F.
- YI, J.-Y., J.-C. YOO, & P.-O. WON. 1994. **Foraging behavior and energy intake of premigratory Australian Curlews *Numenius madagascariensis* on Kanghwa Island, Korea.** *Kor. J. Ornithol.* 1: 1–13. (Korea Inst. Ornithol., Kyung Hee Univ., Seoul 130-701, Korea.)—Optimize energy intake by selectively preying on crabs with carapace diameters of 15–30 mm.—J.V.B.
- YOSEF, R. 1996. **Raptors feeding on migration at Eilat, Israel: opportunistic behavior or migratory strategy?** *J. Raptor Res.* 30: 242–245. (Int. Birding Ctr., P.O. Box 774, Eilat 88106, Israel.)—Data for 19 species from 3 fall and 2 spring seasons.—J.P.S.

GAMEBIRD AND PEST MANAGEMENT

- DENNIS, J. V. 1996. **Waterfowl use of coastal ponds.** *Maryland Birdlife* 52: 75–79. (P.O. Box 578, Princess Anne, MD 21853, USA.)—Use, effects of feeding, and harm done by waterfowl in several resort areas in Maryland, Delaware and Virginia; large populations of *Branta canadensis* cause significant damage to some lawns and other grassy areas.—R.B.C.
- DREES, B. M. 1994. **Red imported fire ant predation on nestlings of colonial waterbirds.** *Southwest. Entomol.* 19: 355–359. (Texas A&M Univ., PO Box 2150, Bryan, TX 77806, USA.)—*Casmerodius albus*, *Ardea herodias*, *Phalacrocorax brasilianus*, *Egretta thula*, *Egretta tricolor*, *Ajaja ajaja*, *Larus atricilla*. Lack of fire ant control with fenoxycarb bait resulted in a 92% reduction in waterbird productivity.—D.E.W.D.
- HAWORTH, M., & K. F. HIGGINS. 1993. **Waterfowl use and production from nesting baskets and bales in South Dakota wetlands.** *Prairie Nat.* 25: 149–160. (USFWS, 4600 Kietzke Ln., Bldg. C-125, Reno, NV 89502, USA.)—Recommendations for placement to increase occupancy and nesting success.—S.W.G.
- HIGGINS, K. F., & R. O. WOODWARD. 1996. **Waterfowl studies at the Woodworth Study Area, Stutsman County, North Dakota: 1965–1995.** *Proc. N. Dakota Acad. Sci.* 50: 132–134. (S. Dakota Coop. Fish. Wildl. Res. Unit., Brookings, SD 57007, USA.)—Review of

- past work in area where habitat was manipulated to determine ways of maximizing populations. Bibliography of studies conducted on this area.—R.B.C.
- HOFFMAN, R. W., ET AL. 1992. **Reintroduction of Greater Prairie-Chickens in northeastern Colorado.** *Prairie Nat.* 24: 197–204. (Colorado Div. Wildl., 317 W. Prospect Rd., Ft. Collins, CO 80526, USA.)—*Tympanuchus cupido*.
- KANTRUD, H. A. 1993. **Duck nest success on conservation reserve program land in the prairie pothole region. J.** *Soil Water Conserv.* 48: 238–242. (North. Prairie Wildl. Res. Ctr., Jamestown, ND 58401-9736, USA.)—*Anas crecca*, *Anas americana*, *Anas discors*, *Anas strepera*, *Anas platyrhynchos*, *Anas clypeata*, *Anas acuta*.
- ORSINI, P. 1996. [Number of *Turdus* shot in the Var department (south-east France). Hunting season 1974-1975; 1983-1984 and 1994-1995 comparison.] *Faune de Provence* 17: 77–84. (Mus. Hist. Nat., 113 av. maréchal Leclerc, 83000 Toulon, France.)—2.8 million birds shot. (French, Engl. summ.)—G.O.
- PASITSCHNIAK-ARTS, M., & F. MESSIER. 1996. **Predation on artificial duck nests in a fragmented prairie landscape.** *Écoscience* 3: 436–441. (Dept. Biol., Univ. Saskatchewan, 112 Science Pl., Saskatoon, SK S7N 5E2, Can.)—Predation rates relative to distance from habitat edge and size of plots.—C.M.
- RILEY, T. Z., & T. A. BOOKHOUT. 1993. **Response of dabbling ducks to early-spring partial drawdown on Lake Erie marshes [Ohio].** *Prairie Nat.* 25: 13–18. (USFWS, Ohio Coop. Fish Wildl. Res. Unit, Columbus, OH 43210, USA.)—Shallow water in nodding smartweed (*Polygonum lapathifolium*) marshes attracts dabbling ducks.—S.W.G.
- RILEY, T. Z. 1992. **Ring-necked Pheasants and food plot size (Galliformes: Phasianidae).** *Prairie Nat.* 24: 185–189. (Iowa Dept. Nat. Resour., Chariton Res. Stn., RR 1 Box 209, Chariton, IA 50049, USA.)—*Phasianus colchicus*; food plots should be at least 4 ha.—S.W.G.
- WALSH, P., & D. M. PIEKARZ. 1995. **Captive management for genetically undocumented waterfowl populations.** *AZA Reg. Conf. Proc.* 1995: 605–610. (Wildl. Conserv. Soc., Bronx Zoo/Wildl. Conserv. Pk., 185th St. & South. Blvd., Bronx, NY 10460, USA.)—Use of each zoo population as a “patch” for genetic management in a Vortex stochastic computer model.—J.C.J.
- BRISKIE, J. V., & R. MONTGOMERIE. 1997. **Sexual selection and the intromittent organ of birds.** *J. Avian Biol.* 28: 73–86. (Edward Grey Inst. Field Ornithol., Dept. Zool., Univ. Oxford, S. Parks Rd., Oxford OX1 3PS, UK. E-mail: james.briskie@zoology.oxford.ac.uk)—Sperm Competition Hypothesis and Female Choice Hypothesis presented to account for rare presence of penis in birds.—R.T.B.
- DROVETSKI, S. V. 1996. **Influence of the trailing-edge notch on flight performance of Galliforms.** *Auk* 113: 802–810. (Dept. Zool., Univ. Washington, Seattle, WA 98195, USA.)—Improves performance in vertical and slow flight but lowers efficiency in level flight.—M.W.
- FERRIERE, R., ET AL. 1996. **Predictability and chaos in bird vigilant behaviour.** *Anim. Behav.* 52: 457–472. (Inst. d’Ecol., Univ. Paris 6, 7 quai Saint-Bernard, 75252 Paris Cedex 05, France.)—A mathematical model based on data from *Calidris maritima*, *Streptopelia risoria* and *Pyrhhorcorax pyrrhcorax* suggests that if individual vigilance is chaotic, flock coordination can reduce individual predictability and enhance level of group surveillance.—A.K.T.
- HAYWOOD, S. 1993. **Role of extrinsic factors in the control of clutch-size in the Blue Tit *Parus caeruleus*.** *Ibis* 135: 79–84. (EGI, Dept. Zool., Univ. Oxford, South Parks Rd., Oxford OX1 3PS, UK.)—Both presence of eggs in nest and higher temperatures play a role.—J.V.B.
- KEMPENAERS, B., & B. C. SHELDON*. 1996. **Why do birds not discriminate between their own and extra-pair offspring?** *Anim. Behav.* 51: 1165–1173. (Dept. Zool., Uppsala Univ., Villavägen 8, S-752 36 Uppsala, Sweden.)
- LARKIN, R. P., L. L. PATER, & D. J. TAZIK. 1994. **Effects of military noise on wildlife: a literature review.** *USACERL Tech. Rep.* 96/21. (Illinois Nat. Hist. Surv., 607 E. Peabody Dr., Champaign, IL 61820, USA; EM: r-larkin@uiuc.edu)—Extensive review of the available literature. Final Report to U.S. Army Constr. Eng. Res. Lab., Champaign, IL, USA.—J.M.S.
- YOO, J.-C. 1994. **Clutch-size in birds a window of evolution?** *Kor. J. Ornithol.* 1: 105–113. (Korea Inst. Ornithol., Kyung Hee Univ., Seoul 130-701, Republic of Korea.)—Brief review of current hypotheses for evolution of clutch size in birds.—J.V.B.

GENERAL BIOLOGY—AFROTROPICAL

- BEAUCHAMP, G. 1997. **Determinants of intraspecific brood amalgamation in waterfowl.** *Auk* 114: 11–21. (Dept. Biol., Concordia Univ., 1455 Ouest Blvd. Maisonneuve, Montreal, PQ H3G 1M8, Can.)—In phylogenetic context, prehatching amalgamation usually precedes posthatching amalgamation.—D.C.D.
- BALANCA, G. 1996. [Notes on the breeding of four bird species in Mauritania.] *Malimbus* 18: 151–153. (BP 5035, 34032 Montpellier Cedex 1, France.)—*Cursorius cursor*, *Eremopterix nigriceps*, *Lanius excubitor*, and *Passer luteus* near Akjoujt, Nov–Dec 1994. (French.)—P.W.P.B.
- DOWSETT-LEMAIRE, F. 1996. **Observations of two *Cuculus* species fed by forest hosts in the Congo.** *Malimbus* 18: 153–154. (194, Rue de Bois de Breux,

- B-4020 Liege, Belgium).—*C. solitarius* and *C. clamosus*.
- EGUCHI, K., S. YAMAGISHI, & V. RANDRIANASOLO. 1993. **The composition and foraging behaviour of mixed-species flocks of forest-living birds in Madagascar.** *Ibis* 135: 91–96. (Dept. Biol., Fac. Sci., Kyushu Univ., Fukuoka 812, Japan.)—Most insectivorous species in area participated in flocks.—J.V.B.
- FASOLA, M., & L. CANOVA. 1993. **Diel activity of resident and immigrant waterbirds at Lake Turkana, Kenya.** *Ibis* 135: 442–450. (Dipto. Biol. Anim., Università, Pz. Botta 9, I-27100 Pavia, Italy.)—Examination of 42 species of waterbirds.—J.V.B.
- GRETH, A. 1996. [Seasonal concentration of water birds at Lake Kivoro, south-west Gabon.] *Malimbus* 18: 149–151. (WWF, BP 148, Gamba, Gabon.)—At least 13 species in September 1994. (French.)—P.W.P.B.
- HARTLEY, R., & K. HUSTLER. 1993. **A less-than-annual breeding cycle in a pair of African Bat Hawks *Machaerampus alcinus*.** *Ibis* 135: 456–458. (Falcon Coll., Esigodini, Zimbabwe.)—Laid clutch every 10 to 11 months.—J.V.B.
- KOPIJ, G. 1996. **Breeding and feeding ecology of the Reed Cormorant *Phalacrocorax africanus* in the Orange Free State, South Africa.** *Acta Ornithol.* (Warsaw) 31: 89–99. (Dept. Zool. & Entomol., Univ. Orange Free State, P.O. Box 339, Bloemfontein 9300, South Africa.)—Information on hatching and fledging success, adult activity patterns and diet.—J.P.
- LAWES, M. J., & S. KIRKMAN. 1996. **Egg recognition and interspecific brood parasitism rates in Red Bishops (Aves: Ploceidae).** *Anim. Behav.* 52: 553–563. (Dept. Zool. Entomol., Univ. Natal, Private Bag X01, Scottsville 3209, S. Africa.)—*Euplectes orix* accepted most cuckoo (*Chrysococcyx caprius*)-model eggs.—A.K.T.
- LINDELL, C. 1996. **Benefits and costs to Plain-fronted Thornbirds (*Phacellodomus rufifrons*) of interactions with avian nest associates.** *Auk* 113: 565–577. (Harvard Univ. Biol. Lab., 16 Divinity Ave., Cambridge, MA 02138, USA.)—Outcomes of interactions with 11 species of birds that use multichambered stick nests.—H.A.W.
- MARKMAN, S., Y. YOM-TOV, & J. WRIGHT*. 1996. **The effect of male removal on female parental care in the Orange-tufted Sunbird.** *Anim. Behav.* 52: 437–444. (Sch. Biol. Sci., Univ. Wales, Bangor, Gwynedd LL57 2UN, UK.)—Female *Nectarinea osea* increased provisioning rate but not nest guarding time.—A.K.T.
- PHILIPPOT, M. 1996. [Wintering of a Swallow (*Hirundo rustica*) in South Africa.] *Schoenicius* 1: 19–24. (la Dôme, 50360 Crosville/Douve, France.)—Norman Swallow caught in the same region as British Swallow. (French)—G.O.
- SIMMONS, R. E. 1993. **Effects of supplementary food on density-reduced breeding in an African eagle: adaptive restraint or ecological constraint?** *Ibis* 135: 394–402. (Dept. Zool., Univ. Witwatersrand, Johannesburg 2050, South Africa.)—*Aquila wahlbergi*.
- WILKINSON, R. 1996. **Cooperative breeding in captive Emerald Starlings *Coccycolius iris*.** *Malimbus* 18: 134–141. (N. England Zool. Soc., Chester Zoo, Upton-by-Chester, Chester CH2 1LH, UK.)—Among 5 probably wild-caught birds in a large, planted, walk-through Tropical House.—P.W.P.B.

GENERAL BIOLOGY—ANTARCTIC AND SUBANTARCTIC

- GREEN, K. 1997. **Biology of the Heard Island Shag *Phalacrocorax nivalis*. 2. Breeding.** *Emu* 97: 67–75. (NPWS, Snowy Mountains Region, P.O. Box 2228, Jindabyne, NSW 2627, Australia.)—Pairs raised 1–3 chicks with high survival during study period.—S.R.P.
- MORENO, J. A., ET AL. 1997. **The effects of hatching date and parental quality on chick growth and creching age in the Chinstrap Penguin (*Pygoscelis antarctica*): a field experiment.** *Auk* 114: 47–54. (Mus. Nacl. Cienc. Nat.-CSIC, J. Gutierrez Abascal 2, E-28006 Madrid, Spain.)—Body mass, size, creching age negatively correlated with hatching date, not related to parental quality.—A.D.A.
- PIETZ, P. J., & D. F. PARMELEE. 1994. **Survival, site and mate fidelity in South Polar Skuas *Catharacta maccormicki* at Anvers Islands, Antarctica.** *Ibis* 136: 32–38. (U.S. Fish & Wildl. Ser., Northern Prairie Wildl. Res. Ctr., Jamestown, ND 58401, USA.)
- WEIDINGER, K. 1996. **Egg variability and hatching success in the Cape Petrel *Daption capense* at Nelson Island, South Shetland Islands, Antarctica.** *J. Zool.* 239: 755–768. (Inst. For. Nat. Res., IBN-DLO Postbox 167, 1790 AD Den Burg (Texel), Netherlands.)—Hatchability related to egg shape.—A.J.M.

GENERAL BIOLOGY—AUSTRALASIA AND OCEANIA

- BARLOW, M. 1996. **Habitats and factors affecting breeding success at eleven Caspian Tern (*Sterna caspia*) colonies in New Zealand.** *Notornis* 42: 138–139. (38 Filleuil St., Invercargill, NZ.)
- BEAUCHAMP, A. J. 1995. **The status of the New Zealand Pipit (*Anthus novaeseelandiae*) in the Wellington region.** *Notornis* 42: 117–125. (71 Church St., Onerahi, Whangarei, NZ.)—In favourable habitat 1–2.5 per sq km.—E.O.M.
- BROOKER, M., & P. DE REBEIRA. 1996. **Does colour-banding affect the survival of adult Honeyeaters?** *Corella* 20: 145–146. (CSIRO Div. Wildl. Ecol., LMB 4, Midland, WA 6056, Australia.)—No difference for *Phylidomyris novaehollandiae*.—I.D.E.
- BUNIN, J. S., & I. G. JAMIESON. 1996. **A cross-fostering experiment between the endangered Takehe (*Por-***

- phyrio mantelli*) and its closest relative, the Pukeko (*P. porphyrio*). N. Z. J. Ecol. 20: 207–213. (Dept. Zool., Univ. Otago, P.O. Box 56, Dunedin, NZ.)—Pukeko adults successfully incubated larger eggs of Takehe and cared for chicks that hatched.—E.O.M.
- CARTER, J. L., ET AL. 1996. **Wedge-tailed Shearwater fledglings at Rocky Islet, Great Barrier Reef: burrow densities and breeding cycle.** Corella 20: 136–140. (Fac. Sci, NT Univ., Darwin, NT 0909, Australia.)—*Puffinus pacificus*.
- CARTER, J. L., P. K. DYER, & G. J. E. HILL. 1996. **Body dimensions of Wedge-tailed Shearwater *Puffinus pacificus* fledglings at Heron Island, Great Barrier Reef, and the importance of timing to breeding.** Corella 20: 141–143. (Fac. Sci., NT Univ., Darwin, NT 0909, Australia.)—Early breeders less successful.—I.D.E.
- CARTER, M. 1996. **Nesting Rosellas *Platycercus* spp.: innovative site selection and notes on repeat breeding and other behaviour.** Aust. Bird Watcher 16: 344–348. (30 Canadian Bay Rd., Mt Eliza, Vic. 3930, Australia.)—Domestic buildings and quarry rock face.—I.D.E.
- CROSSLAND, A. C. 1995. **A probable case of intraspecific killing in Turnstones (*Arenaria interpres*).** Notornis 42: 281–282. (46 Frensham Cres., Christchurch 8006, NZ.)—Female in poor condition was attacked by four other turnstones. All were in breeding plumage.—E.O.M.
- DE KOGEL, C. H., & H. J. PRIJS. 1996. **Effects of brood size manipulations on sexual attractiveness of offspring in the Zebra Finch.** Anim. Behav. 51: 699–708. (Zool. Lab., Univ. Groningen, PO Box 14, 9750 AA Haren, The Netherlands.)—Male *Taeniopygia guttata* reared in small broods were more attractive to females than those from large broods.—A.K.T.
- ELLIOTT, G. P., ET AL. 1996. **Nest site selection by Mohua and Yellow-crowned Parakeets in beech forest in Fiordland, New Zealand.** N. Z. J. Ecol. 23: 267–278. (549 Rocks Rd., Nelson, NZ.)—*Mohoua ochrocephala* use only small cavities whereas *Cyanoramphus auriceps* use wide variety of cavities. Small nest entrances reduce parasitism of Mohua by Long-tailed Cuckoo *Eudynamys taitensis*.—E.O.M.
- FRITH, C. B., D. W. FRITH, & A. JANSEN. 1997. **The nesting biology of the Chowchilla *Orthonyx spaldingii* (Orthonychiidae).** Emu 97: 18–30. (Prionodura, P.O. Box 581, Malanda, Qld. 4885, Australia.)—Appear not to breed cooperatively despite often living on and defending territories in groups. Includes data on egg weight, incubation and nestling period, which are all greater than expected.—S.R.P.
- GOSPER, D. G. 1997. **Aspects of breeding of the Common Koel *Eudynamys scolopacea* and one of its biological hosts, the Magpie-lark *Grallina cyanoleuca*.** Aust. Bird Watcher 17: 11–19. (1309 Nimbin Rd., Lismore, NSW 2480, Australia.)—Attributes of Magpie-lark enhance its suitability as a host.—I.D.E.
- CARTER, M., R. O'BRIEN, & N. MACUMBER. 1997. **Singing Starlings *Aplonis cantoroides* and other birds on Boigu Island, Torres Strait, Queensland.** Aust. Bird Watcher 17: 20–24. (30 Canadian Bay Rd., Mt Eliza, Vic. 3930, Australia.)—First authenticated record for Australia plus annotated trip list.—I.D.E.
- HORN, P. L., J. A. RAFALSKI, & P. J. WHITEHEAD. 1996. **Molecular genetic (RAPD) analysis of breeding Magpie Geese.** Auk 113: 552–557. (Appl. Sci., Univ. Canberra, P.O. Box 1, Belconnen, ACT 2616, Australia.)—*Anseranus semipalmata* form nesting trios (2 females, 1 male) in which the females are significantly related to each other.—C.A.H.
- INNES, J., & R. HAY. 1995. **The nesting of the North Island Kokako (*Callaeas cinerea wilsoni*)—review of accounts from 1880 to 1989.** Notornis 42: 79–93. (Manaaki Whenua—Landcare Res., Priv. Bag 3127, Hamilton, NZ.)—Reviews 16 published and 17 unpublished accounts.—E.O.M.
- POIANI, A. 1997. **Prey delivered to Bell Miner nestlings: is there division of labour among nest attendants?** Emu 97: 87–90. (Dept. Zool., Univ. Melbourne, Parkville, Vic. 3052, Australia.)—Differences between *Manorina melanocephala* attendants probably not due to specialisation of each social category.—S.R.P.
- ROBINSON, A. C. 1995. **Breeding pattern in the Banded Rail (*Gallirallus philippensis*) in Western Samoa.** Notornis 42: 46–48. (Resour. Manage. Br., Dept. Environ. Nat. Resour., P.O. Box 3034, Norwood, SA 5067, Australia.)
- ROWE, S., & R. EMPSON. 1996. **Observations on the breeding behaviour of the Tanga'eo or Mangaia Kingfisher (*Halcyon tuta ruficollaris*).** Notornis 43: 43–48. (1 Corrin St., Hamilton, NZ.)—Mating system variable, with monogamy, polygyny, and polyandry observed. Summarise detailed observations of 13 nests.—E.O.M.
- SWADDLE, J. P. 1996. **Reproductive success and symmetry in Zebra Finches.** Anim. Behav. 51: 203–210. (Div. Environ. Evol. Biol., IBLS, Univ. Glasgow, Glasgow G12 8QQ, UK.)—*Taeniopygia guttata* males wearing symmetrically colored leg bands produced more surviving offspring than those with asymmetrical bands.—A.K.T.
- THIOLLAY, J.-M. 1993. **Habitat segregation and the insular syndrome in two congeneric raptors in New Caledonia, the White-bellied Goshawk *Accipiter haplochrous* and the Brown Goshawk *Accipiter fasciatus*.** Ibis 135: 237–246. (Lab. d'Écol., école Normale Supérieure, 46 rue d'Ulm, F-75230 Paris Cedex 05, France.)
- WEBB, H. P. 1997. **Nesting and other observations of Solomon Island birds.** Aust. Bird Watcher 17: 34–41. (2048 White Oak Circle, Kennesaw, GA 30144, USA.)

- WILLIAMS, M. 1995. **Social structure, dispersion and breeding of the Auckland Island Teal.** *Notornis* 42: 219–262. (Dept. Conserv., P.O. Box 10420, Wellington, NZ.)—On Ewing Island, pairs of *Anas aucklandica* defend territories, mostly on the margin of the island. Only territorial pairs were observed to breed. Mean clutch of 3.4 eggs and average hatching success 93%. Estimates 14% survive to fledging and two-thirds of pairs fail to rear young. Male contributes to brood care.—E.O.M.
- GENERAL BIOLOGY—EUROPE**
- AEBISCHER, N. J. 1993. **Immediate and delayed effects of a gale in late spring on the breeding of the Shag *Phalacrocorax aristotelis*.** *Ibis* 135: 225–232. (The Game Conserv., Fordingbridge, Hampshire SP6 1EF, UK.)—Gales destroyed 49% of nests.—J.V.B.
- ALATALO, R. V., ET AL. 1996. **Paternity, copulation disturbance and female choice in lekking Black Grouse.** *Anim. Behav.* 52: 861–873. (Dept. Biol., Univ. Jyväskylä, Yliopistonkatu 9, FIN-40100 Jyväskylä, Finland.)—*Tetrao tetrix*.
- ALVAREZ, F. 1993. **Proximity of trees facilitates parasitism by Cuckoos *Cuculus canorus* on Rufous Warblers *Cercotrichas galactotes*.** *Ibis* 135: 331. (Estación Biol. Doñana, C.S.I.C. Aptdo. 1056, E-41080 Sevilla, Spain.)
- BAINES, D. 1994. **Seasonal differences in habitat selection by Black Grouse *Tetrao tetrix* in the northern Pennines, England.** *Ibis* 136: 39–43. (Upland Res. Grp., The Game Conserv., Crubenmore Lodge, Newtonmore, Inverness-shire PH20 1BE, UK.)
- BETLEJA, J. 1994. **[Distribution of breeding sites of the Kestrel *Falco tinnunculus* in Upper Silesia in the period of 1988–1992.]** *Ann. Upper Silesian Mus., Nat. Hist.* 14: 105–116. (Muzeum Gornoslaskie, Pl. Sobieskiego 2, 41-902 Bytom, Poland.)—Churches and other buildings used for nest sites since the beginning of the 19th century. (Polish, Engl. summ.)—J.P.
- BUKACINSKA, M., D. BUKACINSKI, & A. L. SPAANS. 1996. **Attendance and diet in relation to breeding success in Herring Gulls (*Larus argentatus*).** *Auk* 113: 300–309. (Inst. Ecol., PAS, Dziekanow Lesny, 05-092 Lomianki, Poland.)
- CARBONE, C., J. J. DE LEEUW, & A. I. HOUSTON. 1996. **Adjustments in the diving time budgets of Tufted Duck and Pochard: is there evidence for a mix of metabolic pathways?** *Anim. Behav.* 51: 1257–1268. (Dept. Biol. Sci., Univ. Zimbabwe, MP 167 Mount Pleasant, Harare, Zimbabwe.)—*Aythya fuligula*, *Aythya ferina*.
- CHERENKOV, S. E. 1996. **[Nest location and nesting success of Song Thrush *Turdus philomelos* in a mosaic forest landscape.]** *Zool. Zh.* 75: 917–925. (A.N. Severtsov, Inst. Ecol. & Evol., Russian Acad. Sci., Moscow, Russia.) (Russian, Engl. summ.)
- CHEYLAN, G., & A. RAVAYROL. 1996. **[Bonelli's Eagle ringing: 1996 report.]** *Faune de Provence* 17: 95–100. (Mus. Hist. Nat., 6 rue Espariat, 13100 Aix-en-Provence, France.)—20 chicks of *Hieraetus fasciatus* ringed. Three young with an Argos beacon. Radio-tracking of a male. (French)—G.O.
- CHRISTE, P., H. RICHNER*, & A. OPLIGER. 1996. **Of Great Tits and fleas: sleep baby sleep. . .** *Anim. Behav.* 52: 1087–1092. (Dept. Zool., Univ. Bern, CH-3032 Hinterkappelen, Switzerland.)—Female *Parus major* in flea-infested nests slept less and spent more time in nest sanitation than controls but feeding rates to nestlings were the same.—A.K.T.
- COOK, M. I. & K. C. HAMER*. 1997. **Effects of supplementary feeding on provisioning and growth rates of nestling Puffins *Fratercula arctica*: evidence for regulation of growth.** *J. Avian Biol.* 28: 56–62. (Dept. Biol. Sci., Univ. Durham, South Rd., Durham DH1 3LE, UK. E-mail: K.Hamer@durham.ac.uk)
- COULSON, J. C., & M. P. JOHNSON. 1993. **The attendance and absence of adult Kittiwakes *Rissa tridactyla* from the nest site during the chick stage.** *Ibis* 135: 372–378. (Dept. Biol. Sci., Univ. Durham, South Rd., Durham City DH1 3LE, UK.)—Chicks left alone overnight more frequently than during day.—J.V.B.
- DELESTRADE, A. 1994. **Factors affecting flock size in the Alpine Chough *Pyrrhocorax graculus*.** *Ibis* 136: 91–96. (Ctr. de Biol. des Ecosystèmes d'Altitude, Univ. de Pau, 64000 Pau, France.)
- DYRCZ, A., & W. ZDUNEK. 1993. **Breeding ecology of the Aquatic Warbler *Acrocephalus paludicola* on the Biebrza marshes, northeast Poland.** *Ibis* 135: 181–189. (Dept. Avian Ecol., Univ. Wrocław, Sienkiewicza 21, 50-335 Wrocław, Poland.)—Study suggests mating system intermediate between facultative polygyny and promiscuity.—J.V.B.
- FARGALLO, J. A., & R. D. JOHNSTON. 1997. **Breeding biology of the Blue Tit *Parus caeruleus* in a montane mediterranean deciduous forest: the interaction of latitude and altitude.** *J. Ornithol.* 138: 83–92. (Dept. de Ecol. Evol., Museo Nacional de Ciencias Naturales-CSIC, J. Gutierrez Abascal 2, E-28006 Madrid, Spain.)
- FARGALLO, J. A., G. BLANCO, & E. SOTTO-LARGO. 1996. **Possible second clutches in a Mediterranean montane population of the Eurasian Kestrel (*Falco tinnunculus*).** *J. Raptor Res.* 30: 70–73. (Dept. Ecol. Evol., Mus. Nacl. Cienc. Nat., C.S.I.C., J. Gutierrez Abascal 2, E-28006 Madrid, Spain.)—3 of 11 pairs initiated possible (unmarked birds) 2nd clutches after fledging young from 1st clutch.—J.P.S.
- FERNANDEZ, O. 1996. **[Ringing of *Calonectris diomedea* on Friuli Islands, Marseille, France, in 1996.]** *Bull. A.S.P.I.M.* 1: 38–42. (134, rue Jaubert, 13005 Marseille, France.)—Cory's Shearwater retrapped after 26 years. (French)—G.O.
- FERRER, M. 1993. **Juvenile dispersal behaviour and natal philopatry of a long-lived raptor, the Span-**

- ish **Imperial Eagle** *Aquila adalberti*. Ibis 135: 132–138. (Estación Biol. de Doñana CSIC, Avda. Maria Luisa, Pabellón del Perú, E-41013 Sevilla, Spain.)—Studied using radio-tagged young.—J.V.B.
- FISKE, P., J. A. KÅLÅS, & S. A. SAETHER. 1996. **Do female Great Snipe copy each other's mate choice?** Anim. Behav. 51: 1355–1362. (Dept. Zool., Norwegian Univ. Sci. & Technol., N-7055 Dragvoll, Norway.)—No evidence for copying in *Gallinago media*.—A.K.T.
- GRAVES, J., J. ORTEGA RUANO, & P. J. B. SLATER. 1993. **Sex ratio of chicks in the Shag *Phalacrocorax aristoteli* determined by a female-specific band in DNA fingerprinting.** Ibis 135: 470–472. (Sch. Biol. & Med. Sci., Univ. St. Andrews, St. Andrews KY16 9TS, UK.)—No significant deviation from parity.—J.V.B.
- HALLEY, D. J., & M. P. HARRIS. 1993. **Intercolony movement and behaviour of immature Guillemots *Uria aalge*.** Ibis 135: 264–270. (Sch. Life Sci., The Univ., St. Andrews, Fife KY16 9AJ, UK.)—Study of 61 chicks ringed at other colonies and recorded at author's study site.—J.V.B.
- HAMER, K. C., ET AL. 1993. **The influence of food supply on the breeding ecology of Kittiwakes *Rissa tridactyla* in Shetland.** Ibis 135: 255–263. (Appl. Ornithol. Unit, Dept. Zool., Glasgow Univ., Glasgow G12 8QQ, UK.)—Compare two years of contrasting food availability.—J.V.B.
- HOGSTAD, O., & I. STENBERG. 1997. **Breeding success, nestling diet and parental care in the White-backed Woodpecker *Dendrocopos leucotos*.** J. Ornithol. 138: 25–38. (The Museum, Univ. Trondheim, N-7004 Trondheim, Norway.)
- JENNI, L. 1993. **Structure of a Brambling *Fringilla montifringilla* roost according to sex, age and body-mass.** Ibis 135: 85–90. (Schweizerische Vogelwarte, CH-6204 Sempach, Switzerland.)—Females and light birds displaced toward periphery of roost.—J.V.B.
- JOHNSON, K., S. G. NILSSON, & M. TJERNBERG. 1993. **Characteristics and utilization of old Black Woodpecker *Dryocopus martius* holes by hole-nesting species.** Ibis 135: 410–416. (Dept. Wildl. Ecol., Swedish Univ. Agricultural Sci., Box 7002, S-750 07 Uppsala, Sweden.)—*Corvus monedula* main secondary nester.—J.V.B.
- JOHNSTON, R. D. 1993. **The effect of direct supplementary feeding of nestlings on weight loss in female Great Tit *Parus major*.** Ibis 135: 311–314. (Avian Ecol. Unit, DMBS, Cottrell Bldg., Univ. Stirling, Stirling, Scotland FK8 4LA, UK.)—With feeding, females lose less weight during nestling period.—J.V.B.
- KOCH, B., & H.-H. BERGMANN. 1997. **[Nest inspections in breeding and non-breeding Shelducks (*Tadorna tadorna*) on the German North Sea coast, with remarks on Shelduck counting.]** Vogelwarte 39: 82–86. (FB Biol./Chemie d. Univ., Baraestr. 11, D-49069 Osnabrueck, Germany.) (German, Engl. summ.)
- KORPIMÄKI, E., ET AL. 1996. **Copulatory behaviour and paternity determined by DNA fingerprinting in Kestrels: effects of cyclic food abundance.** Anim. Behav. 51: 945–955. (Lab. Ecol. Zool., Dept. Biol., Univ. Turku, FIN-20500 Turku, Finland.)—*Falco tinnunculus*.
- KOSTRZEWA, R., & A. KOSTRZEWA. 1997. **[Breeding success of the Kestrel *Falco tinnunculus* in Germany: results 1985–1994.]** J. Ornithol. 138: 73–82. (Postfach 1209, D-53904 Zuelpich, Germany.)—Successful pairs breeding at sheltered sites fledged more young than those at open sites. (German, Engl. summ.)—P.H.B.
- KROKENE, C., ET AL. 1996. **Paternity and paternity assurance behaviour in the Bluethroat, *Luscinia svecica svecica*.** Anim. Behav. 52: 405–417. (Zool. Mus., Univ. Oslo, Sars gate 1, N-0562 Oslo, Norway.)—20% of offspring extra-pair.—A.K.T.
- LAMBRECHTS, M. M., & P. C. DIAS. 1993. **Differences in the onset of laying between island and mainland Mediterranean Blue Tits *Parus caeruleus*: phenotypic plasticity or genetic differences?** Ibis 135: 451–455. (CNRS/CEFE, B.P. 5051, F-34033 Montpellier Cedex 1, France.)—Mostly due to genetic differences between geographic areas.—J.V.B.
- LEBEDEVA, N. V. 1994. **Young-adult interaction in asynchronous broods of hole nesting Passerines Aves.** Ann. Upper Silesian Mus., Nat. Hist. 14: 75–103. (Dept. Ecol., Rostov State Univ., ul. Bol. Sadovaya 105, 344006 Rostov on Don, Russia.)—Nestling behavior and feeding compared in natural asynchronous broods of *Parus major*, *Parus caeruleus*, and *Passer montanus*.—J.P.
- LIFJELD, J. T., ET AL. 1997. **A sexually selected paradox in the Pied Flycatcher: attractive males are cuckolded.** Auk 114: 112–115. (Zool. Mus., Univ. Oslo, Sars gate 1, N-0562 Oslo, Norway.)—Data do not support any hypothesized explanations for this observation in *Ficedula hypoleuca*.—D.C.D.
- LUKAC, G., ET AL. 1992. **Characteristics of habitat and distribution of *Sitta neumayer* MICH. (Aves) in Croatia and neighbouring areas.** Nat. Croat. 1: 81–91. (Dept. Botany, Fac. Sci., Univ. Zagreb, Marulićev trg 20/2, HR-10000 Zagreb, Croatia.)—Nesting site characteristics and species distribution on the Balkan peninsula.—T.M.
- MARIJAKANGAS, A., P. VALKEAJAERVI, & L. IJAES. 1997. **Female Black Grouse *Tetrao tetrix* shift nest site after nest loss.** J. Ornithol. 138: 111–116. (Univ. Oulu, Dept. Biol., Zool., P.O. Box 333, FIN-90571 Oulu, Finland.)
- MCRAE, S. B. 1996. **Family values: costs and benefits of communal nesting in the Moorhen.** Anim. Behav. 52: 225–245. (Dept. Zool., Downing St., Cambridge CB2 3EJ, UK.)—*Gallinula chloropus*.
- MEIJER, T. 1993. **Is the Starling *Sturnus vulgaris* a determinate layer?** Ibis 135: 315–319. (Max-Planck-

- Inst. für Verhaltensphysiologie, Vogelwarte, D-8138 Andechs, Germany.)—Starling is an addition-determinate but removal-indeterminate layer.—J.V.B.
- MITRUS, C., ET AL. 1996. **Age and arrival of Collared Flycatcher *Ficedula albicollis* males do not influence quality of natural cavities used.** Acta Ornithol. (Warsaw) 31: 101–106. (Dept. Zool., Agric. Teacher's Univ., Prusa 12, 08-110 Siedlce, Poland.)—Surplus of nesting cavities in Bialowieza primeval forest results in low competition for nest sites.—J.P.
- MOKSNES, A., & E. ROSKAF. 1995. **Egg-morphs and host preference in the Common Cuckoo (*Cuculus canorus*): an analysis of cuckoo and host eggs from museum collections.** J. Zool., Lond. 236: 625–648. (Dept. Zool., Univ. Trondheim, N-7055 Dragvoll, Norway.)—Supports the “nest site hypothesis,” where females parasitize a group of host species with similar eggs or nest sites.—J.K.B.
- MUDGE, G. P., & T. R. TALBOT. 1993. **The breeding biology and causes of nest failure of Scottish Black-throated Divers *Gavia arctica*.** Ibis 135: 113–120. (RSPB, The Lodge, Sandy, Bedfordshire SG19 2DL, UK.)—Flooding and predation main causes of nest failure.—J.V.B.
- NEGRO, J. J., ET AL. 1996. **DNA fingerprinting reveals a low incidence of extra-pair fertilizations in the Lesser Kestrel.** Anim. Behav. 51: 935–943. (Doñana Biol. Stn., Apdo 1056, 41080 Sevilla, Spain.)—*Falco naumanni*.
- NEWTON, I., I. WYLLIE, & P. ROTHERY. 1993. **Annual survival of Sparrowhawks *Accipiter nisus* breeding in three areas of Britain.** Ibis 135: 49–60. (Inst. Terrestrial Ecol., Monks Wood, Abbots Ripton, Huntingdon, Cambs PE17 2LS, UK.)—Ranges from 59 to 72%.—J.V.B.
- OLIOSO, G. 1996. [Data on the breeding of water birds in Vaucluse, South-East France.] Faune de Provence 17: 71–76. (le Mail, 26230 Grignan, France.)—*Turdus ruficollis*, *Parus cristatus*, *Anas platyrhynchos*, *Anas querquedula*, *Anas clypeata*, *Netta rufina*, *Rallus aquaticus*, *Gallinula chloropus*, *Fulica atra*; 2.5 % in September and October hunting period. (French, Engl. summ.)—G.O.
- PANDOLFI, M. 1996. **Play activity in young Montagu's Harriers (*Circus pygargus*).** Auk 113: 935–938. (Inst. Sci. Morfologiche, Univ. Urbino, Via Muzio Oddi, 21 61029, Urbino, Italy.)
- PERRINS, C. M., & H. Q. P. CRICK. 1996. **Influence of lunar cycle on laying dates of European Nightjars (*Caprimulgus europaeus*).** Auk 113: 705–708. (Edward Grey Inst. Field Ornithol., Dept. Zool., S. Parks Rd., Oxford OX1 3PS, UK.)—Nightjars initiating nesting in mid-June tend to synchronize their nesting with the lunar cycle.—M.L.F.
- POYSÄ, H., P. RUNKO, & V. RUUSILA. 1997. **Natal philopatry and the local resource competition hypothesis: data from the Common Goldeneye.** J. Avian Biol. 28: 63–67. (Finnish Game & Fish. Res. Inst., Evo Game Res. Stn., Kaitalammentie 75, FIN-16970 Evo, Finland., E-mail: hannu.poysa@rktl.fi.)—*Bucephala clangula*.
- PRIS, S. J., & R. RODRIGUEZ. 1996. **Some factors related to distribution by breeding Kingfisher (*Alcedo atthis* L.).** Ekol. pol. 44: 31–38. (Dept. Anim. Biol.-Zool., Fac. Biol., Salamanca Univ., 37071 Salamanca, Spain.)—Birds avoid sections of rivers with sparse or very dense riparian vegetation.—J.P.
- PUGACEWICZ, E. 1996. [Birds of prey breeding in the Polish part of the Bialowieza Primeval Forest.] Notatki Ornitol. 37: 173–224. (Botaniczna 3, 17 200 Hajnówka, Poland)—Numbers, habitat distribution, nest sites and breeding data. (Polish, Engl. summ.)—T.W.
- REEBS, S. G. 1997. **Abiotic factors and preroosting behavior of Greylag Geese: a comment.** Auk 114: 140–141. (Dept. Biol., Univ. Moncton, Moncton, NB E1A 3E9, Can.)—Response to Schmitt (Auk 111: 759).—J.R.F.
- SCHMIDT, K.-H., U. ROTHENBAECHER, & A. REUL. 1997. [Delayed dispersal in Tenerife Blue Tits (*Parus caeruleus teneriffae*)] Vogelwarte 39: 95–96. (Oekol. Aussenstelle d. J.W. Goethe Univ. Frankfurt/M., Schlagweg 19, D-36381 Schluechtern, Germany.) (German, Engl. summ.)
- SCHMITT, A. 1997. **Abiotic factors and preroosting behavior of Greylag Geese: response to Reeb.** Auk 114: 142–143. (Dept. Phys., Univ. Vet. Med., Vienna, Austria.)—Reply to Reeb (Auk 114: 140).—J.R.F.
- SMITH, H. G. 1993. **Parental age and reproduction in the Marsh Tit *Parus palustris*.** Ibis 135: 196–201. (Dept. Ecol., Lund Univ., S-223 62 Lund, Sweden.)—Older birds produce larger clutches earlier in the season.—J.V.B.
- SOSNOWKI, J., & S. CHMIELEWSKI. 1996. **Breeding biology of the Roller *Coracias garrulus* in Puszcza Pilicka Forest, central Poland.** Acta Ornithol. (Warsaw) 31: 119–131. (Bardowskiego 4/24, 97-200 Tomaszów Maz., Poland.)—Breeding phenology, nesting success, food, and feeding habitat preferences.—J.P.
- SUNDBERG, J., & A. DIXON. 1996. **Old, colourful male Yellowhammers, *Emberiza citrinella*, benefit from extra-pair copulations.** Anim. Behav. 52: 113–122. (Dept. Zool., Uppsala Univ., Villavägen 9, S-752 36 Uppsala, Sweden.)
- SWENSON, J. E., & D. A. BOAG. 1993. **Are Hazel Grouse *Bonasa bonasa* monogamous?** Ibis 135: 463–467. (Dept. Zool., Univ. Alberta, Edmonton, AB T6G 2E9, Canada.)—Apparently so.—J.V.B.
- THOMPSON, P. S., & W. G. HALE. 1993. **Adult survival and numbers in a coastal breeding population of Redshank *Tringa totanus* in northwest England.** Ibis 135: 61–69. (Sch. Nat. Sci., Liverpool Polytech., Byrom St., Liverpool L3 3AF, UK.)—Female (72%) and male (75%) yearly survival similar.—J.V.B.

- THOMSON, D. L., ET AL. 1996. **Breeding success and survival in the Common Swift *Apus apus*: a long term study on the effects of weather.** *J. Zool.* 239: 29–38. (BTO, The Nunnery, Thetford, Norfolk, IP24 2PU, UK.)—Breeding success and survival related to June/July temperatures and other long term trends.—A.J.M.
- VEIGA, J. P. 1996. **Mate replacement is costly to males in the multibrooded House Sparrow: an experimental study.** *Auk* 113: 664–671. (Mus. Nacl. Cienc. Nat., C.S.I.C., José Gutiérrez Abascal 2, E-28006, Madrid, Spain.)—*Passer domesticus* males that changed mates after 1st breeding attempt raised fewer young to fledging in 2nd breeding attempt than did males that kept their original mates.—D.C.D.
- VERHULST, S., & R. A. HUT. 1996. **Post-fledging care, multiple breeding and the costs of reproduction in the Great Tit.** *Anim. Behav.* 51: 957–966. (Zool. Lab., P.O. Box 14, 9750 AA Haren, The Netherlands.)—*Parus major* females gave more post-fledging care when second clutches removed.—A.K.T.
- ZAWADZKA, D. 1996. [Distribution, habitat selection, food and reproduction of the Raven (*Corvus corax*) in the National Park of Lake Wigry (NE Poland).] *Notatki Ornitol.* 37: 225–245. (25 czerwca 68b/15, 26 600 Radom, Poland.) (Polish, Engl. summ.)
- GENERAL BIOLOGY—INDOMALAYAN**
- POONSWAD, P., & A. TSUJI. 1994. **Ranges of males of the Great Hornbill *Buceros bicornis*, Brown Hornbill *Ptilolaemus tickelli* and Wreathed Hornbill *Rhyticeros undulatus* in Khao Yai National Park, Thailand.** *Ibis* 136: 79–86. (Dept. Microbiol., Fac. Sci., Mahidol Univ., Bangkok, Thailand.)
- GENERAL BIOLOGY—NEARCTIC**
- ASHLEY, E. P., & J. T. ROBINSON. 1996. **Road mortality of amphibians, reptiles, and other wildlife on the Long Point causeway, Lake Erie, Ontario.** *Can. Field-Nat.* 110: 403–412. (Can. Wildl. Serv., Big Creek Natl. Wildl. Area, RR 3, Port Rowan, ON N0E 1M0, Can.)—Includes 1302 deaths of 62 avian species.—D.L.E.
- AUSTIN, J. E., & D. D. HUMBURG. 1992. **Diurnal flight time of wintering Canada Geese: consideration of refuges and flight energetics.** *Prairie Nat.* 24: 21–30. (USFWS, North. Prairie Wildl. Res. Ctr., Rt. 1 Box 96C, Jamestown, ND 58401-9736, USA.)—Mean flight duration and daily energy expenditure for *Branta canadensis* flight varies with weather conditions, food availability, and disturbance from hunters and predators.—S.W.G.
- BEASLEY, B. A. 1996. **Males on guard: paternity defences in Violet-green Swallows and Tree Swallows.** *Anim. Behav.* 52: 1211–1224. (Bamfield Mar. Stn., Bamfield, BC V0R 1B0, Can.)—*Tachycineta thalassina* and *Tachycineta bicolor*.
- BERGIN, T. M. 1992. **Cost of nest reuse by Western Kingbirds.** *Prairie Nat.* 24: 39–40. (Dept. Biol. Sci., Bowling Green State Univ., Bowling Green, OH 43403, USA.)—Unsuccessful nesting attempt by *Tyrannus verticalis* in old Baltimore Oriole (*Icterus galbula*) nest.—S.W.G.
- CLARK, G. A., JR. 1997. **Wintering regions for Connecticut breeding bird species.** *Connecticut Warbler* 17: 13–25. (Dept. Ecol. Evol. Biol., Univ. Connecticut, Storrs, CT 06269-3043, USA.)—Compiled from various sources; appendix lists primary wintering areas of all species.—R.B.C.
- CLARK, R. G., & B. K. WOBESER. 1997. **Making sense of scents: effects of odour on survival of simulated duck nests.** *J. Avian Biol.* 28: 31–37. (Can. Wildl. Serv., Prairie & North. Wildl. Res. Ctr., 115 Perimeter Rd., Saskatoon, SK S7N 0X4, Can. E-mail: clarkb@desoto.wx.sk.doe.ca)—Experimental study of survival of concealed chicken eggs in simulated ground nests while controlling factors that reportedly affect clutch survival.—R.T.B.
- CLEMENT, R. C. 1997. **Killdeer's dilemma.** *Connecticut Warbler* 17: 34. (Evergreen #122, 88 Notch Hill Rd., N. Branford, CT 06471, USA.)—One of 2 *Charadrius vociferus* chicks killed by jump from roof nesting site, indicating a problem with use of such sites.—R.B.C.
- CZERWINSKI, E. 1996. **Opportunistic nesting of Bank Swallow.** *Birders J.* 5: 133. (155 Biggins Ave., Sault Ste. Marie, ON P6A 3T8, Can.)—*Riparia riparia* built 152 nest burrows on newly exposed slope on one day, no more than 8 days after mud slide.—A.L.L.
- DAVIS, W. M. 1996. **Simultaneous harassment of a Great Horned Owl by several smaller birds.** *Bull. Oklahoma Ornithol. Soc.* 29: 23–24. (308 Lewis Ln., Oxford, MS 38655, USA.)—Perched *Bubo virginianus* attacked by female *Falco sparverius*, male *Agelaius phoeniceus*, *Lanius ludovicianus*, and *Mimus polyglottos*.—R.B.C.
- DICKINSON, J. L., & M. L. LEONARD. 1996. **Mate attendance and copulatory behaviour in Western Bluebirds: evidence of mate guarding.** *Anim. Behav.* 52: 981–992. (Hastings Reservation, 38601 E. Carmel Valley Rd., Carmel Valley, CA 93924, USA.)—*Sialia mexicana*.
- DOYLE, F. I. 1996. **Bigamy in Red-tailed Hawks in southwestern Yukon.** *J. Raptor Res.* 30: 38–40. (Kluane Lake Res. Stn., Mile 1054 Alaska Hwy., YT Y1A 3V4, Can.)—*Buteo jamaicensis*.
- DUNK, J. R., R. N. SMITH, & S. L. CAIN. 1997. **Nest-site selection and reproductive success in Common Ravens.** *Auk* 114: 116–120. (Grand Teton Natl. Pk., P.O. Drawer 170, Moose, WY 83012, USA.)—*Corvus corax* generally selects mature forest for nesting; early nesters have greater nesting success.—M.L.F.
- ERNST, C. E. 1997. **Simultaneous brooding by two**

- Mourning Doves.** Raven 68: 28–31. (Dept. Biol., George Mason Univ., Fairfax, VA 22030, USA.)—2 adult *Zenaidura macroura* sat side by side on 2 nestlings in Pennsylvania.—R.B.C.
- FORSYTHE, B. 1996. **Bald Eagle nest on man-made site.** Birders J. 5: 254–255. (R.R. 2, Wolfville, NS POP 1X0, Can.)—*Haliaeetus leucocephalus*.
- FREEBERG, T. M. 1996. **Assortative mating in captive Cowbirds is predicted by social experience.** Anim. Behav. 52: 1129–1142. (Dept. Biol., Indiana Univ., Jordan Hall, Bloomington, IN 47405, USA.)—*Molothrus ater*.
- GEHLBACH, F. R., & J. C. ROBERTS. 1997. **Experimental feeding of suburban Eastern Screech-Owls *Otus asio* has few effects on reproduction apart from non-experimental factors.** J. Avian Biol. 28: 38–46. (Dept. Biol., Baylor Univ., Waco, TX 76798, USA. E-mail: Fred.Gehlbach@baylor.edu)
- GIBSON, R. M. 1996. **A re-evaluation of hotspot settlement in lekking Sage Grouse.** Anim. Behav. 52: 993–1005. (Dept. Biol., Univ. California, Los Angeles, CA 90095-1606, USA.)—*Centrocercus urophasianus*.
- GOGUEN, C. B., & N. E. MATHEWS. 1996. **Nest desertion by Blue-gray Gnatcatchers in association with Brown-headed Cowbird parasitism.** Anim. Behav. 52: 613–619. (Dept. Wildl. Ecol., Univ. Wisconsin, 226 Russell Labs, Madison, WI 53706, USA.)—*Poliioptila caerulea* parasitized by *Molothrus ater*.
- GOSSELIN, M. 1990. **[Some poorly known birds: Bombycillidae.]** Québec Oiseaux 2(1): 19–21. (Can. Mus. Natl., P.O. Box 3443, Station D, Ottawa, ON K1P 6P4, Can.)—General presentation of Bombycillidae. (French.)—G.S.
- GOSSELIN, M. 1990. **[Some poorly known birds: Mimidae.]** Québec Oiseaux 2(3): 22–25. (Can. Mus. Natl., P.O. Box 3443, Station D, Ottawa, ON K1P 6P4, Can.)—General presentation of Mimidae. (French.)—G.S.
- HATCH, S. A., B. D. ROBERTS, & B. S. FADELY. 1993. **Adult survival of Black-legged Kittiwakes *Rissa tridactyla* in a Pacific colony.** Ibis 135: 247–254. (Alaska Fish & Wildl. Res. Ctr., U.S. Fish & Wildl. Ser., 1011 E. Tudor Rd., Anchorage, AK 99503, USA.)—Survival does not differ between sexes; average adult life expectancy about 13 years.—J.V.B.
- HOLT, D. W. 1996. **On winter records and vertebrate prey in Flammulated Owls.** J. Raptor Res. 30: 46–48. (Owl Res. Inst., P.O. Box 8335, Missoula, MT 59807, USA.)—Response to McCallum's (1994, USDA For. Serv. Gen. Tech. Rep. RM-253: 14–46; and 1994, Birds N. Amer., No. 93) questioning the authenticity of such records for *Otus flammeolus*.—J.P.S.
- JACKSON, J. A., & B. J. S. JACKSON. 1989. **Killdeer with a brood of five chicks.** Mississippi Kite 19: 19–20. (Dept. Biol. Sci., Mississippi State Univ., Box Z, Mississippi State, MS 39762, USA.)—*Charadrius vociferus*.
- JACKSON, J. A., & W. E. DAVIS. 1989. **Mobile home of a Carolina Wren.** Mississippi Kite 19: 14–16. (Dept. Biol. Sci., Mississippi State Univ., Box Z, Mississippi State, MS 39762, USA.)—*Thryothorus ludovicianus* nested in the engine compartment of a vehicle; 3 successful fledgings.—T.M.
- JACOBS, E. A. 1996. **A mechanical owl as a trapping lure for raptors.** J. Raptor Res. 30: 31–32. (Linwood Springs Res. Stn., 1601 Brown Deer Ln., Stevens Point, WI 54481, USA.)—Moving model of *Bubo virginianus* tested on breeding *Accipiter striatus*, *Accipiter cooperii*, and *Buteo lineatus*.—J.P.S.
- JEHL, J. R., JR. 1996. **Interactions of a White-winged Black Tern, *Chlidonias leucopterus*, with Arctic Terns, *Sterna paradisaea*, at Churchill, Manitoba.** Can. Field-Nat. 110: 536–537. (Hubbs/Sea World Res. Inst., 2595 Ingraham St., San Diego, CA 92109, USA.)
- KANTRUD, H. A., & K. F. HIGGINS. 1992. **Nest and nest site characteristics of some ground-nesting, non-passerine birds of northern grasslands.** Prairie Nat. 24: 67–84. (USFWS, North. Prairie Wildl. Res. Ctr., Rt. 1, Box 96C, Jamestown, ND 58401-9736, USA.)—16 species; includes clutch size and nest success.—S.W.G.
- KIRSCH, E. M. 1993. **Observations of aggression in Piping Plover adults in Nebraska.** Prairie Nat. 25: 77–79. (USFWS, North. Prairie Wildl. Res. Ctr., P.O. Box 2226, La Crosse, WI 54602, USA.)—*Charadrius melodus* attack members of other family groups.—S.W.G.
- LITTLE, J., & J. LANGESLAG. 1996. **White-winged Crossbill nest in Rice County [Minnesota].** Loon 68: 86–89. (128 SW 5th Ave., Faribault, MN 55021, USA.)—Describes the building of and attendance at 2 separate nests by *Loxia leucoptera* in Mar and Apr 1996.—D.L.E.
- LOSITO, M. P., & G. A. BALDASSARRE. 1996. **Pair-bond dissolution in Mallards.** Auk 113: 692–695. (Environ. For. Biol., State Univ. NY, Coll. Environ. Sci. For., Syracuse, NY 13210, USA.)—Pair-bond duration in *Anas platyrhynchos* longer than previously reported, lasting well into incubation.—A.D.D.
- LYNCH, S. A., & S. WEST. 1997. **Interaction between a Northern Harrier (*Circus cyaneus*) and a Peregrine Falcon (*Falco peregrinus*).** New Mexico Ornithol. Soc. Bull. 25: 6–85. (3506 Cass Dr., Carlsbad, NM 88220, USA.)—♀ harrier drove ♂ peregrine from body of ♀ *Anas crecca*.—R.B.C.
- MACDOUGALL-SHACKLETON, E. A., R. J. ROBERTSON, & P. T. BOAG. 1996. **Temporary male removal increases extra-pair paternity in Eastern Bluebirds.** Anim. Behav. 52: 1177–1183. (Dept. Ecol. Evol. Biol., Princeton Univ., Princeton, NJ 08544, USA.)—*Sialia sialis*.
- MAHNKEY, P. 1996. **Prothonotary Warblers raise second brood in one season.** Bluebird 63(4): 13–14.

- (No address given.)—*Protonotaria citrea* at Lake Tane-como, Missouri.—R.B.C.
- MCCALLUM, D. A. 1996. **Diurnal sight records of Flammulated Owls and possible vertebrate prey in winter: the case for caution.** *J. Raptor Res.* 30: 49–51. (Dept. Biol., Coll. Charleston, Charleston, SC 29424, USA.)—Rebuttal to Holt's response (1996, *J. Raptor Res.* 30: 46–48) to previous criticisms.—J.P.S.
- McFARLAND, K. P., & C. C. RIMMER. 1996. **Horsehair fungus, *Marasmius androsaceus*, used as nest lining by birds of the subalpine spruce-fir community in the northeastern United States.** *Can. Field-Nat.* 110: 541–543. (Vermont Inst. Nat. Sci., RR 2, Box 532, Woodstock, VT 05091, USA.)
- NIEMUTH, N. 1992. **Use of man-made structures by nesting Ferruginous Hawks in Wyoming.** *Prairie Nat.* 24: 43. (Dept. Zool. Physiol., Box 3166, Univ. Wyoming, Laramie, WY 82071, USA.)—*Buteo regalis*; 1 nest on irrigation equipment, 1 on abandoned shed.—S.W.G.
- NORTH, M. R. 1996. **Whip-poor-will nest in Cass County [Minnesota].** *Loon* 68: 186–188. (N. Country Ecol. Stud., P.O. Box 13, Moorhead, MN 56561, USA.)—Nesting and brood behavior of *Caprimulgus vociferus*.—D.L.E.
- PALMER-BALL, B., JR. 1996. **A unique nest site for Barn Owls.** *Kentucky Warbler* 72: 47–48. (Ky. State Nat. Preserves Comm., 801 Schenkel Ln., Frankfort, KY 40601, USA.)—*Tyto alba* in opening of cliff line.—R.B.C.
- PATON, P. W. C., & T. C. EDWARDS, JR. 1996. **Factors affecting interannual movements of Snowy Plovers.** *Auk* 113: 534–543. (UT Coop. Fish. Wildl. Unit, Utah State Univ., Logan, UT 84322, USA.)—Sex-biased dispersal in *Charadrius alexandrinus nivosus*, with males more site faithful. Factors included nesting success in previous year, densities of sites and available suitable nesting habitat.—H.A.W.
- PLISSNER, J. H., & P. A. GOWATY. 1996. **Patterns of natal dispersal, turnover and dispersal costs in Eastern Bluebirds.** *Anim. Behav.* 51: 1307–1322. (NBS/FRESC, 3200 Jefferson Way, Corvallis, OR 97331, USA.)—*Sialia sialis*.
- POULIN, R. G., P. A. BRADSHAW, & M. D. GRAHAM. 1996. **Late spring arrival, nesting, and fall departure by Common Nighthawks, *Chordeiles minor*, in Saskatchewan in 1995.** *Can. Field-Nat.* 110: 539–540. (Biol. Dept., Univ. Regina, Regina, SK S4S 0A2, Can.)
- POWERS, L. R., ET AL. 1996. **Nesting and food habitats of Flammulated Owls (*Otus flammeolus*) in south-central Idaho.** *J. Raptor Res.* 30: 15–20. (Dept. Biol., NW Nazarene Coll., Nampa, ID 83686, USA.)—4-year study of 44 nesting attempts by 24 pairs.—J.P.S.
- REED, J. M., & J. R. WALTERS. 1996. **Helper effects on variance components of fitness in the cooperative-ly breeding Red-cockaded Woodpecker.** *Auk* 113: 608–616. (Biol. Resour. Res. Ctr., 1000 Valley Rd., Univ. Nevada, Reno, NV 89512, USA.)—Helpers increased the probability of producing young, but their presence was not associated with reduced variance in reproductive success in *Picoides borealis*.—M.E.B.
- RENDELL, W. B., & N. A. M. VERBEEK. 1996. **Old nest material in nest boxes of Tree Swallows: effects on nest-site choice and nest building.** *Auk* 113: 319–328. (Dept. Biol. Sci., Simon Fraser Univ., Burnaby, BC V5A 1S6, Can.)—*Tachycineta bicolor* individuals preferred empty boxes or those with microwaved material but had to build bigger nests in empty boxes.—J.R.F.
- RENDELL, W. B., & R. J. ROBERTSON. 1993. **Cavity size, clutch-size and the breeding ecology of Tree Swallows *Tachycineta bicolor*.** *Ibis* 135: 305–310. (Dept. Biol., Queen's Univ., Kingston, ON K7L 3N6, Canada.)—Experimental study manipulating cavity size.—J.V.B.
- SHACKELFORD, C. E., & F. C. EARLEY. 1996. **Barred Owl nest in a natural hole in an earthen bank in eastern Texas.** *J. Raptor Res.* 30: 41. (Wildl. Hab. Silvicult. Lab., Southern Res. Stn., US For. Serv., Nacogdoches, TX 75962, USA.)—*Strix varia*.
- SHACKFORD, J. S. 1996. **The importance of shade to breeding Mountain Plovers.** *Bull. Oklahoma Ornithol. Soc.* 29: 17–21. (429 Oak Cliff Dr., Edmond, OK 73034-8625, USA.)—Highly important to *Charadrius montanus* because unshaded young can die in 15 minutes on a hot day.—R.B.C.
- SLOANE, S. A. 1996. **Incidence and origins of supernumeraries at Bushtit (*Psaltriparus minimus*) nests.** *Auk* 113: 757–770. (Bird Div., Mus. Zool., Univ. Michigan, Ann Arbor, MI 48109, USA.)—Extra birds, mostly male, were present at 37% of nests. They may contribute genetically to nests, possibly resulting in polygynous, polyandrous, and polygynandrous groups.—A.D.D.
- SPENDELOW, J. A., J. M. ZINGO, & S. FOSS. 1997. **A pair of Roseate Terns fledges three young with limited human assistance.** *Connecticut Warbler* 17: 6–10. (USGS/BRD, Patuxent Wildl. Res. Ctr., Laurel, MD 20708-4017, USA.)—Human assistance in feeding smallest *Sterna dougallii* chick suggests that tern parents may be able to feed 3 large chicks in years when food is abundant.—R.B.C.
- SUREDA, N., & J. J. KEANE. 1996. **Observations of a pair of nesting Cooper's Hawks in San Francisco, California.** *J. Raptor Res.* 30: 247–248. (RR3 Box 17A, Vermillion, SD 57069, USA.)—1st confirmed *Accipiter cooperii* nest record for city and county; 3rd attempt fledged 1 young from nest in *Eucalyptus* spp. in area of high human activity using exotic and native prey.—J.P.S.
- SVEDARSKY, W. D. 1992. **Observations on nesting of the American Bittern in northwest Minnesota.** *Prairie Nat.* 24: 241–250. (NW Exp. Stn., Univ. Min-

- nesota, Crookston, MN 56716, USA.)—*Botaurus lentiginosus*.
- TSUJI, L. J. S. 1996. **Do female Sharp-tailed Grouse, *Tympanuchus phasianellus*, copulate only once during a breeding season?** *Can. Field-Nat.* 110: 535–536. (Dept. Biol., York Univ., N. York, ON M3J 1P3, Can.)
- TURCOTTE, W. H. 1989. **Fall nesting of the Carolina Wren in central Mississippi.** *Mississippi Kite* 19: 6. (240 Lowe Circle, Richland, MS 39218, USA.)—*Thryothorus ludovicianus*.
- VERBEEK, N. A. M. 1996. **Occurrence of egg-capping in birds' nests.** *Auk* 113: 703–705. (Dept. Biol., Simon Fraser Univ., Burnaby, BC V5A 1S6 Can.)—Documented in *Larus glaucescens*, *Corvus caurinus* and *Anthus rubescens*, with other species reviewed.—H.A.W.
- WAGNER, R. H., M. D. SCHUG, & E. S. MORTON. 1996. **Confidence of paternity, actual paternity and parental effort by Purple Martins.** *Anim. Behav.* 52: 123–132. (Dept. Biol., York Univ., North York, ON M2M 1P3, Can.)—*Progne subis*.
- WARNOCK, N., & L. W. ORING. 1996. **Nocturnal nest attendance of Killdeers: more than meets the eye.** *Auk* 113: 502–504. (Environ. Res. Sci./186, Univ. Nevada, 1000 Valley Rd., Reno, NV 89512, USA.)—Flexible incubation habits in *Charadrius vociferus*.—J.R.F.
- WATTS, B. D. 1996. **Social strategy and cover in Savannah Sparrows.** *Auk* 113: 960–963. (Dept. Zool. Inst. Ecol., Univ. Georgia, Athens, GA 30602, USA.)—*Passerculus sandwichensis* adjust social habits to match habitat conditions.—C.A.H.
- WILLEY, D. W. 1996. **Eyrie characteristics of Peregrine Falcons in the Canyonlands of Utah.** *Utah Birds* 12: 17–23. (Colorado Plateau Res. Stn., N. Arizona Univ., NAU Box 5614, Flagstaff, AZ 86011, USA.)—14 *Falco peregrinus* sites analyzed.—R.B.C.
- YEZERINAC, S. M., P. J. WEATHERHEAD*, & P. T. BOAG. 1996. **Cuckoldry and lack of parentage-dependent paternal care in Yellow Warblers: a cost-benefit approach.** *Anim. Behav.* 52: 821–832. (Dept. Biol., Carleton Univ., 1125 Colonel By Drive, Ottawa K1S 5B6, Can.)—*Dendroica petechia*.
- GENERAL BIOLOGY—NEOTROPICAL**
- BAKER, A. J., D. F. WHITACRE, & O. AGUIRRE B. 1996. **Observations of King Vultures (*Sarcoramphus papa*) drinking and bathing.** *J. Raptor Res.* 30: 246–247. (574 WIDB, Dept. Zool., Brigham Young Univ., Provo, UT 84602, USA.)
- BURTT, E. H., JR. 1993. **Cliff-facing behaviour of the Swallow-tailed Gull *Creagra furcatus*.** *Ibis* 135: 459–462. (Dept. Zool., Ohio Wesleyan Univ., Delaware, OH 43015, USA.)—Similar to that observed in *Rissa tridactyla*.—J.V.B.
- INNES, K. E., & R. F. JOHNSTON. 1996. **Cooperative breeding in the White-throated Magpie-Jay: how do auxiliaries influence nesting success?** *Anim. Behav.* 51: 519–533. (Dept. Preventive Med. Biometrics, Univ. Colorado Health Sci. Ctr., Box C245, 4200 E. 9th Ave., Denver, CO 80262, USA.)—*Calocitta formosa* helpers hastened onset of 1st laying, reduced predation on eggs and chicks, and decreased hatching failure.—A.K.T.
- LAGO-PAIVA, C. 1996. **Cavity nesting by Great Kiskadees (*Pitangus sulphuratus*): Adaptation or expression of ancestral behavior?** *Auk* 113: 953–955. (Caixa Postal 91, Piracicaba, Estado de São Paulo, 13400-970, Brazil.)—Cavity nesting may be primitive character in branches of Tyrannidae. New terms proposed for the use of cavities by birds.—M.E.B.
- LANGEN, T. A. 1996. **Skill acquisition and the timing of natal dispersal in the White-throated Magpie-Jay, *Calocitta formosa*.** *Anim. Behav.* 51: 575–588. (Dept. Biol., Univ. California, Los Angeles, CA 90095, USA.)
- POULIN, B., G. LEFEBVRE, & R. MCNEIL. 1993. **Variations in bird abundance in tropical arid and semi-arid habitats.** *Ibis* 135: 432–441. (Dépt. de sci. biol., Univ. de Montréal, C.P. 6128, succursale "A", Montréal, PQ H3C 3J7, Canada.)—Over the annual cycle in northeastern Venezuela.—J.V.B.
- TOBIAS, J. A., & R. S. R. WILLIAMS. 1996. **Notes on the behavior of the Masked Saltator in Southern Ecuador.** *Auk* 113: 942–944. (Sch. Pure Appl. Biol., Univ. Wales, Coll. Cardiff, P. O. Box 915, Cardiff CF1 3TL, UK.)—*Saltator cinctus* foraging, seasonal movements, densities and distribution details.—H.A.W.
- GENERAL BIOLOGY—N. AFRICA & MIDDLE EAST**
- AL-SAFADI, M. M. 1996. **Observations on breeding Ruppell's Weaver *Ploceus galbula* in the Republic of Yemen.** *Sandgrouse* 18 (2): 14–18. (Biol. Dept., Sana'a Univ., P.O.Box 13499, Sana'a, Yemen.)
- CASTELL, P. 1996. **Additional information on breeding biology of Rufous Bush Robin *Cercotrichas galactotes*.** *Sandgrouse* 18 (2): 67. (Fairlawn, 679 Chester Rd., Great Sutton, S. Wirral L66 2LN, UK.)—Turkey, Morocco.—P.J.C.
- CASTELL, P. 1996. **Additional information on Menetries's Warbler *Sylvia mystacea* breeding biology in south-eastern Turkey.** *Sandgrouse* 18 (2): 68. (Fairlawn, 679 Chester Rd., Great Sutton, S. Wirral L66 2LN, UK.)
- CASTELL, P. 1996. **Black-headed Bunting *Emberiza melanocephala* breeding behaviour in Turkey.** *Sandgrouse* 18 (2): 71. (Fairlawn, 679 Chester Rd., Great Sutton, S. Wirral L66 2LN, UK.)
- GANCZ, A. 1996. **Observations on Long-billed Pipit *Anthus similis* in Jerusalem.** *Sandgrouse* 18 (1): 10–13. (P.O. Box 9110, Jerusalem, Israel.)
- MARTINS, R.P. 1996. **Some aspects of southern Yem-**

en: an introduction for field ornithologists and conservationists. *Sandgrouse* 17: 15–21, (6 Connaught Rd., Norwich NR2 3BP, UK.)—Major habitats.—P.J.C.

NORTHERN ASIA & FAR EAST

- CHO, S.-R. 1994. [On the wintering ecology of birds in the reclamation areas A and B at Seosan, Korea.] *Kor. J. Ornithol.* 1: 83–94. (Dept. Biol., Coll. Nat. Sci., Kong-Ju Univ., Kong-Ju 314-701, Korea.)—Occurrence of waterbirds in two reclaimed marshes. (Korean, Engl. summ.)—J.V.B.
- KIM, H.-C., & P.-O. WON. 1994. [Ecology of waterbirds on the Naktong River Estuary, Korea.] *Kor. J. Ornithol.* 1: 57–71. (Korea Inst. Ornithol., Kyung Hee Univ., Seoul 130-701, Korea.)—Seasonal occurrence, feeding and diurnal activities of 83 species of waterbirds. (Korean, Engl. summ.)—J.V.B.
- KOO, T. H. 1994. [Ecological studies of birds in West-nakdong River.] *Kor. J. Ornithol.* 1: 73–81. (Dept. Environ. Sci., Kyung Hee Univ., Kyunggi-do 449-701, Korea.)—Occurrence and nesting biology of 38 species of waterbirds. (Korean, Engl. summ.)—J.V.B.
- OH, J. G., H. S. PARK, & H. S. OH. 1994. [Study on the breeding ecology of the Japanese Wood Pigeon, *Columba janthina janthina* Temminck.] *Kor. J. Ornithol.* 1: 115–126. (Dept. Sci. Educ., Cheju Natl. Univ., Cheju 690-756, Korea.)—Includes information on clutch size, incubation, feeding and diet. (Korean, Engl. summ.)—J.V.B.
- UNDERHILL, L. G., ET AL. 1993. Breeding of waders (Charadrii) and Brent Geese *Branta bernicla bernicla* at Pronchishcheva Lake, northeastern Taimyr, Russia, in a peak and a decreasing lemming year. *Ibis* 135: 277–292. (Avian Demography Unit, Dept. Statistical Sci., Univ. Cape Town, Rondebosch 7700, South Africa.)—Low predation and high nest success observed in peak lemming year, and high predation and low nest success in decreasing year.—J.V.B.

HISTORIES, BIBLIOGRAPHIES, AND CATALOGS

- BAIRLEIN, F., & O. HUEPPOP. 1997. [Heinrich Gaetke—his scientific contribution today.] *Vogelwarte* 39: 3–13. (Inst. f. Vogelforschung, An der Vogelwarte 21, D-26386 Wilhelmshaven, Germany.)—Compares Gaetke's view—published in 1895 "Heligoland as an ornithological observatory"—on patterns and processes of bird migration to current knowledge. (German, Engl. summ.)—K.-M.E.
- CRANMER-BYNG, J. L. 1996. A life with birds; Percy A. Taverner, Canadian ornithologist, 1875–1947. *Can. Field-Nat.* 110: 1–254. (92 Greenbelt Crescent, Richmond Hill, ON L4C 5R8, Can.)
- HAUBITZ, B. 1997. [Heinrich Gaetke (1814–1897) in the literature and art of the 19th century.] *Vogelwarte* 39: 14–33. (Bergener Str. 26, D-30625 Hannover, Germany.)—Biography and paintings of Gaetke. (German, Engl. summ.)—K.-M.E.
- KOEPPE, U. 1997. [The Hiddensee Bird Ringing Scheme 1964–1994—a review.] *Vogelwarte* 39: 34–47. (Beringungszentr. Hiddensee am LAUN Mecklenburg-Vorpommern, Wampener Str., D-17498 Neuenkirchen, Germany.)—Historical review of the Hiddensee ringing scheme and the most important research projects. (German, Engl. summ.)—K.-M.E.
- MAYFIELD, G. R., JR. 1993. In Memoriam: Lillie Haslock Mayfield, 1890–1990. *Migrant* 64: 33–34. (No address given.)
- PALMER-BALL, B., JR. 1996. In Memoriam: Herbert L. Clay, Jr. *Kentucky Warbler* 72: 71. (8027 Old Westport Rd., Louisville, KY 40222, USA.)
- PAQUIN, J. 1991. [W. Earl Godfrey: studying Canadian birds.] *Québec Oiseaux* 2(2): 7–8. (Can. Mus. Natl., P.O. Box 3443, Station D, Ottawa, ON K1P 6P4, Can.)—(French.)
- WASILEWSKI, J. 1996. [Prof. dr hab. Bronislaw Ferens, 1912–1991. Obituary.] *Przegl. Zool.* 407–10. (Inst. Biol. Srodowiskowej U. J. Ingardena 6, 30-060 Kraków, Poland.)—With publication list, including monographs on *Bubo bubo*, *Acrocephalus palustris* and *Tadorna ferruginea*. (Polish)—J.P.

IDENTIFICATION

- ALSTRÖM, P., & K. MILD. 1996. The identification of Rock, Water and Buff-bellied Pipits. *Alula* 2: 161–175. (Alula, P.O. Box 85, FIN-02271 Espoo, Finland.)—Color plates of *Anthus petrosus*, *Anthus spinoletta* and *Anthus rubescens* from forthcoming book.—E.H.
- BEADLE, D., & B. HENSHAW. 1996. Identification of "Greenland" Common Redpoll *Carduelis flammula rostrata*. *Birders J.* 5: 44–47. (74 Chestnut Park Rd., Toronto, ON M4W 1W9, Can.)—Based on study skins, literature, and field observations; includes color plate.—A.L.L.
- BIRCH, A., & C.-T. LEE. 1997. Arctic and Pacific loons: field identification. *Birding* 29: 106–115. (214 N. Clark Dr., Apt. 4, Beverly Hills, CA 90211, USA.)—With color plate and color photos of *Gavia arctica* and *Gavia pacifica*.—R.B.C.
- CASTELL, P. 1996. Description of the nestlings of Olive-tree Warbler *Hippolais olivetorum*. *Sandgrouse* 18 (2): 68. (Fairlawn, 679 Chester Rd., Great Sutton, S. Wirral L66 2LN, UK.)—Turkey.—P.J.C.
- DUNCAN, J. 1996. Techniques to sex and age Great Gray Owls: a bird in the hand worth two in the bush? *Birders J.* 5: 240–246. (Box 253, Balmoral, MB R0C 0H0, Can.)—*Strix nebulosa*.
- ECKERT, K. R. 1996. Birding by hindsight. A second look at Western (and eastern) sandpipers. *Loon* 68: 121–124. (8255 Congdon Blvd., Duluth, MN

- 55804, USA.)—Identification of *Calidris minutilla*, *Calidris pusilla*, *Calidris mauri*, *Calidris bairdii*, *Calidris fuscicollis*, *Calidris alba*, *Calidris ferruginea*.—D.L.E.
- ECKERT, K. R. 1996. **Birding by hindsight. A second look at ducks.** *Loon* 68: 168–172. (8255 Congdon Blvd., Duluth, MN 55804, USA.)—Focuses on females and hybrids not discussed in most field guides.—D.L.E.
- ECKERT, K. R. 1996. **Birding by hindsight. A second look at songs (part one).** *Loon* 68: 62–66. (8255 Congdon Blvd., Duluth, MN 55804, USA.)
- EITNIEAR, J. C. 1996. **Estimating age classes in King Vultures (*Sarcoramphus papa*) using plumage coloration.** *J. Raptor Res.* 30: 35–38. (Ctr. Study Trop. Birds, Inc., 218 Conway Dr., San Antonio, TX 78209-1716, USA.)
- FEICHTINGER, G. 1997. **Field identification goes hi-tech.** *Birding* 29: 154–156. (7255 Roundrock Rd., Dallas, TX 75248, USA.)—Describes a UFM (Unmanned Field Monitoring) project intended to automate bird-song recognition and discusses possible further developments of such systems.—R.B.C.
- FORSMAN, D. 1996. **How to separate ringtail Hen, Montagu's and Pallid Harriers.** *Alula* 2: 151–159. (Alula, P.O. Box 85, FIN-02271 Espoo, Finland.)—Identification of female *Circus cyaneus*, *Circus macrourus* and *Circus pygargus*. (Finnish, Engl. summ.)—E.H.
- GORMAN, G. 1996. **[Syrian Woodpecker identification and European breeding range.]** *Ornithos* 3: 178–186. (Pf. 701-1047, Budapest 1399, Hungary.)—Northwestern breeding range expansion continues slowly. Description of hybrids *Dendrocopos syriacus* × *Dendrocopos major*. (French)—G.O.
- HARIO, M. 1997. **Herring Gulls with yellow legs in the Gulf of Finland.** *Alula* 3: 10–15. (c/o Alula, P. O. Box 85, FIN-02271 Espoo, Finland.)—Field characters and variation among 'omissus'-types.—E.H.
- HEIDCAMP, A. 1997. ***Selasphorus* hummingbirds. Notes on identification.** *Birding* 29: 18–29. (2314 Rt. 32, Saugerties, NY 12477, USA.)—Distinguishing Rufous, *Selasphorus rufus*, and Allen's hummingbirds, *Selasphorus sasin*, from each other and from other hummingbirds with methods of determining age and sex.—R.B.C.
- HEINDEL, M. T. 1996. **Field identification of the Solitary Vireo complex.** *Birding* 28: 458–471. (Smithsonian Migr. Bird Ctr., Natl. Zool. Park, Washington, DC 20008, USA.)—Distinguishing *Vireo solitarius solitarius*, *Vireo solitarius alticola*, *Vireo solitarius cassinii*, and *Vireo solitarius plumbeus*; the latter 2 forms may represent a distinct species.—R.B.C.
- HOLDER, M. 1996. **Identification and status of Yellow-green Vireo in North America: with special reference to a Canadian record.** *Birders J.* 5: 78–89. (17 Flemington Ct., Whitby, ON L1N 5X1, Can.)—Quebec skin specimen, originally preserved in alcohol, is faded but measurements fall in range for *Vireo flavoviridis*; skeleton not measured.—A.L.L.
- HOUGH, J. 1997. **The status and identification of Northern Wheatears in Connecticut.** *Connecticut Warbler* 17: 1–5. (51 Brook St., #6C, Naugatuck, CT 06770, USA.)—*Oenanthe oenanthe* and 2 congeners.—R.B.C.
- MCKENZIE, P. 1996. **The finer points of identification. Part V.** *Bluebird* 63(3): 12–19. (No address given.)—For 9 species pairs: *Aythya marila* vs. *Aythya affinis*, *Falco sparverius/columbarius*, *Calidris alpina/ferruginea*, *Columbina inca/passerina*, *Contopus virens/sordidulus*, *Anthus spinoletta/spragueii*, immature *Wilsonia pusilla* vs. *Dendroica petechia*, *Sturnella magna/neglecta*, *Euphagus carolinus/cyanocephalus*.—R.B.C.
- MCKENZIE, P. 1996. **The finer points of identification.** *Bluebird* 63(4): 28–31. (No address given.)—For 8 species pairs: *Columba livia* vs. *Columba fasciata*, *Zenaidura macroura/asiatica*, *Melanerpes carolinus/aurifrons*, *Bombycilla cedrorum/garrulus*, female and immature *Spiza americana* vs. *Passer domesticus*, *Molothrus ater/bonariensis/aeneus*, *Carpodacus purpureus/mexicanus*, female *Carduelis tristis/psaltria*.—R.B.C.
- MOORHOUSE, R. J., & T. C. GREENE. 1995. **Identification of fledgling and juvenile Kaka (*Nestor meridionalis*).** *Notornis* 42: 187–196. (Sch. Biol. Sci., Victoria Univ., Wellington, NZ.)—Birds <1 year old have ring of pale skin around eye plus other morphological and behavioural characteristics.—E.O.M.
- NELSON, C. H. 1996. **Identification of Greater Scaup, *Aythya marila*, and Lesser Scaup, *A. affinis*, ducklings.** *Can. Field-Nat.* 110: 288–293. (318 Wildwood Park, Winnipeg, MB R3B 0N2, Can.)
- SZANTYR, M. S. 1997. **Semipalmated Sandpiper or Little Stint? A matter of degrees.** *Birding* 29: 132–115. (2C Yale Rd., Storrs, CT 06268, USA.)—Bird in Connecticut 24 Aug 1995 originally thought to be a *Calidris minuta* later identified as a bright juvenile *Calidris pusilla*.—R.B.C.

MIGRATION AND ORIENTATION

- ABLE, K. P., & M. A. ABLE. 1996. **The flexible migratory orientation system of the Savannah Sparrow (*Passerculus sandwichensis*).** *J. Exp. Biol.* 199: 3–8. (Dept. Biol., State Univ. New York, Albany, NY 12222, USA.)
- ABLE, K. P. 1996. **The debate over olfactory navigation by homing pigeons.** *J. Exp. Biol.* 199: 121–124. (Dept. Biol. Sci., State Univ. New York, Albany, NY 12222, USA.)—Summarises the "state of play" in the debate.—D.J.L.M.
- ALERSTAM, T. 1996. **The geographical scale factor in orientation of migrating birds.** *J. Exp. Biol.* 199: 9–19. (Dept. Anim. Ecol., Univ. Lund, Ecol. Bldg., S-223 62 Lund, Sweden.)—Reviews examples of individual migration routes mapped by various tracking methods.—D.J.L.M.

- ALLEN, P. E., L. J. GOODRICH, & K. L. BILDSTEIN. 1996. **Within- and among-year effects of cold fronts on migrating raptors at Hawk Mountain, Pennsylvania, 1934–1991.** *Auk* 113: 329–338. (Hawk Mtn. Sanctuary, RR 2, Box 191, Kempton, PA 19529, USA.)—No evidence of among-year effects but within-year effects found for 12 of 14 species.—S.K.W.
- ANDREWS, I. J. 1996. **Preliminary data on raptor passage in Jordan.** *Sandgrouse* 18 (2): 36–45. (39 Clayknowes Dr., Musselburgh, Midlothian EH21 6UW, UK.)
- ANSCHUTZ, S. 1996. **Whooping Crane sightings during the March–May 1996 migration.** *Nebraska Bird Rev.* 64: 68–70. (USFWS, 203 W. Second St., Grand Island, NE 68801, USA.)—Nebraska sightings of *Grus americana*.—R.B.C.
- BARDON, K. 1996. **Gull migration in the Twin Cities [Minnesota].** *Loon* 68: 14–34. (1430 100th Ave. NW #212, Coon Rapids, MN 55433, USA.)
- BELAUD, M. 1996. [Postnuptial migration of the Wood Pigeon *Columba palumbus* in the Alpes-Maritimes, South-Eastern France.] *Faune de Provence* 17: 58–70. (Quartier St Pancrace, 06830 Gilette, France.)—Coastal movements are important, but migration is spread over whole region. (French, Engl. summ.)—G.O.
- CHAN, K., & J. KIKKAWA. 1997. **A Silveryeye dilemma: to migrate or not to migrate?** *Emu* 97: 91–3. (Dept. Biol., Central Qld. Univ., Rockhampton, Qld. 4072, Australia.)—*Zosterops lateralis*; interaction of genetic and social factors may be important for migration decision.—S.R.P.
- CURRIE, N. 1997. **Connecticut's 1996 fall hawk migration.** *Connecticut Warbler* 17: 26–33. (10 Mountain Laurel Ln., Sandy Hook, CT 06482, USA.)—Summary totals for all species at 20 lookouts, for 2 of these by month, for *Buteo platypterus* flights, and for totals for 18 years for 1 site in Newtown.—R.B.C.
- DAL MOLIN, A., & L. JOUBERT. 1996. [Migration and wintering of Reed Bunting (*Emberiza schoeniclus*) in La Mazière (Lot & Garonne, SW France.)] *Schoeniclus* 1: 3–18. (réserve naturelle de la Mazière, 47400 Villeton, France.)—Stopover and wintering site fidelity; sex and age-ratio. (French)—G.O.
- DAL MOLIN, A., & L. JOUBERT. 1996. [Migration and wintering of Reed Bunting (*Emberiza schoeniclus*) in La Mazière (Lot & Garonne, SW France.). II.] *Schoeniclus* 2: 43–51. (réserve naturelle de la Mazière, 47400 Villeton, France.)—Biometrics and stopover. (French)—G.O.
- DANKERT, J. B., & F. Z. LESHER. 1996. **1995 fall raptor migration along the Mississippi River at Reno, Minnesota.** *Loon* 68: 158–164. (4402 Markle Rd., #7, La Crosse, WI 544601, USA.)
- DEL SEPPIA, C., P. LUSCHI, & F. PAPI*. 1996. **Influence of emotional factors on the initial orientation of pigeons.** *Anim. Behav.* 52: 33–47. (Dept. Scienze del Comportamento Animale e dell'Uomo, Via A Volta 6, I-56126 Pisa, Italy.)—*Columba livia*.
- DINSMORE, S. J. 1996. **A late Baird's Sandpiper in Keith County.** *Nebraska Bird Rev.* 64: 79–80. (4024 Arkansas Dr., Ames, IA 50014, USA.)—*Calidris bairdii* seen 23 Dec 1994 on the N. Platte R. is a new late date for Nebraska.—R.B.C.
- DUNCAN, C. D. 1996. **The migration of Red-necked Phalaropes.** *Birding* 28: 482–488. (Inst. Field Ornithol., Univ. Maine, 9 O'Brien Ave., Machias, ME 04654, USA.)—The Quoddy Region along the border of Maine and New Brunswick hosted 100s of thousands of migrant *Phalaropus lobatus* into the late 1970s but only small numbers occur there now. Hypothesizes causes of this changes.—R.B.C.
- ELY, C. R., & J. Y. TAKEKAWA. 1996. **Geographic variation in migratory behavior of Greater White-fronted Geese (*Anser albifrons*).** *Auk* 113: 889–901. (AK Sci. Center, 1011 East Tudor Rd., Anchorage, AK 99503, USA.)—Phenotypic differences between 2 geese populations attributed to temporal partitioning on staging and wintering areas.—M.L.F.
- GRIEVE, A. 1996. **Spring raptor movements at Gebel el Zeit, Egypt.** *Sandgrouse* 18 (1): 61–63. (RSPB Blacktoft Sands Res., Hillcrest, Whitgift, nr. Goole, N. Humberston, UK.)
- GROMADZKA, J., & M. ZIELINSKI. 1996. [Ring of waders (Charadrii) at the Vistula river mouth (Poland) in 1995–1996.] *Notatki Ornitol.* 37: 344–351. (Stacja Ornitologiczna IE PAN, Nadwiłńska 108, 80 680 Gdansk, Poland.)—Multiyear catching totals of *Calidris alpina*, *Calidris ferruginea*, *Calidris minuta*, *Actitis hypoleucos*. (Polish, Engl. summ.)—T.W.
- GUÐMUNDSSON, G. A. 1993. **The spring migration pattern of arctic birds in southwest Iceland, as recorded by radar.** *Ibis* 135: 166–176. (Dept. Ecol., Univ. Lund, Ecol. Bldg., S-223 62 Lund, Sweden.)—*Calidris canutus*, *Arenaria interpres*, *Calidris alba*, and *Branta bernicla*.
- GWINNER, E. 1996. **Circadian and circannual programmes in avian migration.** *J. Exp. Biol.* 199: 39–48. (Max-Planck-Institut für Verhaltensphysiologie, D-82346 Andechs, Germany.)
- HATCHER, R. M. 1993. **Encounters of a Tennessee-hacked Bald Eagle.** *Migrant* 64: 32. (Tenn. Wildl. Resour. Agency, P.O. Box 40747, Nashville, TN 37204, USA.)—*Haliaeetus leucocephalus* released in Jun 1992 retrapped on s. shore of Lake Ontario in Aug and found dead in Jan 1993 in SE Ohio.—R.B.C.
- HEDENSTRÖM, A., ET AL. 1993. **Migration, stopover and moult of the Great Reed Warbler *Acrocephalus arundinaceus* in Ghana, West Africa.** *Ibis* 135: 177–180. (Dept. Biol., Univ. Lund, Ecol. Bldg., S-223 62 Lund, Sweden.)
- HELBIG, A. J. 1996. **Genetic basis, mode of inheritance and evolutionary changes of migratory directions in Palearctic warblers (Aves: Sylviidae).**

- J. Exp. Biol. 199: 49–55. (Univ. Greifswald, Vogelwarte Hiddensee, D-18565 Kloster, Germany.)
- HUDEDE, H., & R. VOHWINKEL. 1997. [Phenology of autumn migration of the Dunnock (*Prunella modularis*).] Vogelwarte 39: 48–60. (Ruestermark 2, D-45134 Essen, Germany.)—Analysis of banding of 47,000 Dunningtons shows a movement of about 50–60 km per day from northern to southern Germany. (German, Engl. summ.)—K.-M.E.
- KANE, K. W. S. 1993. The altitude at which Quail *Coturnix coturnix* migrate. Ibis 135: 469–470. (Castlebellingham, Co. Louth, Ireland.)—About 10 m over the surface waters of the Mediterranean Sea.—J.V.B.
- KJELLÉN, N., M. HAKE, & T. ALERSTAM. 1997. Strategies of two Ospreys *Pandion haliaetus* migrating between Sweden and tropical Africa as revealed by satellite tracking. J. Avian Biol. 28: 15–23. (Dept. Anim. Ecol., Ecol. Bldg., S-223 62 Lund, Sweden.)
- KLAASEN, M. 1996. Metabolic constraints on long-distance migration in birds. J. Exp. Biol. 199: 57–64. (Ctr. Limnol., Netherlands Inst. Ecol., Rijksstraatweg 6, NL-3631 AC Nieuwersluis, The Netherlands.)
- KNIGHT, R. L. 1993. Major fallout of waterbirds in northeast Tennessee. Migrant 64: 59–60. (804 North Hills Dr., Johnson City, TN 37604, USA.)—6265 waterbirds of 32 species counted 9 Nov 1991 following the passage of a cold front; count included 550 *Podiceps auritus* compared to a previous state high total of 79.—R.B.C.
- MCCLELLAND, B. R., ET AL. 1996. Fledging and migration of juvenile Bald Eagles from Glacier National Park, Montana. J. Raptor Res. 30: 79–89. (Box 366, West Glacier, MT 59936, USA.)—10 years of observations on 29 *Haliaeetus leucocephalus* nestlings; 11 tagged with radios and patagial markers for extended monitoring.—J.P.S.
- MCKENZIE, P. 1996. Notes on the fall migration of Le Conte's Sparrow (*Ammodramus leconteii*) in east-central Missouri. Bluebird 63(3): 26–29. (No address given.)—Arrive about 15 Oct with peak numbers 20 Oct–10 Nov with a few lingering to overwinter; birds occur most frequently in pure stands of big bluestem, Indian grass, switchgrass or broom grass.—R.B.C.
- MEYBURG, B.-U., & E. G. LOBKOV. 1994. Satellite tracking of a juvenile Steller's Sea Eagle *Haliaeetus pelagicus*. Ibis 136: 105–106. (World Working Group on Birds of Prey, Wangenheimstr. 32, 14193 Berlin, Germany.)
- MOORE, F. R., & D. A. ABORN. 1996. Time of departure by Summer Tanagers (*Piranga rubra*) from a stopover site following spring trans-Gulf migration. Auk 113: 949–952. (Dept. Biol. Sci., Univ. Southern Mississippi, Hattiesburg, MS 39406, USA.)—Birds re-initiated migration from stopover site 2–3 hours after sunset or later.—M.L.F.
- NEWTON, I., & L. C. DALE. 1996. Bird migration at different latitudes in eastern North America. Auk 113: 626–635. (Inst. Terrestrial Ecol., Monks Wood, Abbots Ripton, Huntingdon, Cambridgeshire PE17 2LS, UK.)—The proportion of breeding species that migrate south for the winter increases 1.4% for every degree of latitude.—M.L.F.
- NICOLETTI, F. J. 1996. American Kestrel and Merlin migration correlated with Green Darner movements at Hawk Ridge. Loon 68: 216–221. (3128 Vallet Rd., Duluth, MN 55804, USA.)—*Falco sparverius*, *Falco columbarius*, and dragonfly *Anax junius* migration at Duluth, Minnesota.—D.L.E.
- OLOSIO, G. 1996. [Provence Ringing Center. 1995 report.] Faune de Provence 17: 85–90. (le Mail, 26230 Grignan, France.)—6544 birds of 72 species. (French.)
- PAPI, F., & P. LUSCHI. 1996. Pinpointing 'Isla Meta': the case of sea turtles and albatrosses. J. Exp. Biol. 199: 65–71. (Dipartimento di Scienze del Comportamento Animale e dell'Uomo, Univ. Pisa, Via A. Volta 6, I-56126, Italy.)—Compares results of tracking sea turtles and albatrosses during long-range movements.—D.J.L.M.
- RANDLER, C. 1997. [Observation of a diurnal migrant Short-toed Treecreeper (*Certhia brachydactyla*) in spring.] Vogelwarte 39: 96–97. (Lehmgrubenweg 24, D-74321 Bietigheim-Bissingen, Germany.) (German, Engl. summ.)
- SHERRY, D. F., & S. J. DUFF. 1996. Behavioural and neural bases of orientation in food-storing birds. J. Exp. Biol. 199: 165–171. (Dept. Psychol., Univ. Western Ontario, London, ON N6A 5C2, Can.)—Review evidence for use of landmarks and sun compass in retrieving food from caches. Also discuss role of the hippocampus.—D.J.L.M.
- STARK, H., & F. LIECHTI. 1993. Do Levant Sparrowhawks *Accipiter brevipes* also migrate at night? Ibis 135: 233–236. (Schweizerische Vogelwarte, CH-6204 Sempach, Switzerland.)—Yes.—J.V.B.
- SULLIVAN, B. L. 1997. Spring raptor migration at Derby Hill, New York. Birding 29: 116–126. (377 9th St., Surf City, NJ 08008, USA.)—Overview of this observatory at the southeastern corner of Lake Ontario with graphs of 2-year average totals for 1978–79 to 1994–95 for *Accipiter striatus*, *Haliaeetus leucocephalus*, *Pandion haliaetus*, *Cathartes aura* and *Buteo jamaicensis*. Tabulated data for 21 species.—R.B.C.
- SUMMERS, R. W., ET AL. 1996. Phenology of migration and use of wintering sites by the increasing population of Dark-bellied Brent Geese *Branta bernicla bernicla*. J. Zool. 239: 197–208. (RSPB, Etive Ho., Beechwood Pk., Inverness, IV2 3BW, Scotland, UK.)—Later arrival and departure dates of wintering birds related to increasing flock size.—A.J.M.
- WALCOTT, C. 1996. Pigeon homing: observations, experiments and confusions. J. Exp. Biol. 199: 21–27. (Lab. Ornithol. & Sec. Neurobiol. & Behav., Cornell Univ., Ithaca, NY 14850, USA.)—Argues that hom-

- ing pigeons use several cues to aid orientation.—D.J.L.M.
- WALRAFF, H. G. 1996. **Seven theses on pigeon homing deduced from empirical findings.** *J. Exp. Biol.* 199: 105–111. (Max-Planck-Institut für Verhaltensphysiologie, D-82319 Seewiesen Post Starnberg, Germany.)—Summarises current state of knowledge on pigeon homing and attempts to account for apparent discrepancies between models.—D.J.L.M.
- WENINK, P. W., & A. J. BAKER. 1996. **Mitochondrial DNA lineages in composite flocks of migratory and wintering Dunlins (*Calidris alpina*).** *Auk* 113: 744–756. (Diagnostic DNA Lab., Univ. Hospital Utrecht, P. O. Box 85500, 3508 GA Utrecht, The Netherlands.)—The 4 mtDNA lineages detected identical to those found previously among breeding Dunlins. Useful in defining migration corridors, staging and wintering areas.—H.A.W.
- WILSON, M. D., & B. D. WATTS. 1997. **Differential fall passage times in two subspecies of the Palm Warbler through the eastern shore of Virginia.** *Raven* 68: 28–31. (Ctr. Conserv. Biol., Coll. William & Mary, Williamsburg, VA 23185, USA.)—*Dendroica palmarum palmarum* precedes *Dendroica palmarum hypochrysea* at Kiptopeke by an average of 10 days.—R.B.C.
- WILTSCHKO, R. 1996. **The function of olfactory input in pigeon orientation: does it provide navigational information or play another role?** *J. Exp. Biol.* 199: 113–119. (Fachbereich Biologie der Universität, Zoologie, Siesmayerstrasse 70, D-60054 Frankfurt a.M., Germany.)—Argues that experiments on olfactory orientation may have side-effects which confound interpretation of results, and recommends new work free from these limitations.—D.J.L.M.
- WILTSCHKO, W., & R. WILTSCHKO. 1996. **Magnetic orientation in birds.** *J. Exp.* 199: 29–38. (Fachbereich Biologie der Universität, Zoologie, Siesmayerstrasse 70, D-60054 Frankfurt a.M., Germany.)—An inclination compass operates in all 18 species investigated. Evidence that magnetic information used for position finding less clear.—D.J.L.M.
- YOSEF, R. 1996. **Sex and age classes of migrating raptors during the spring of 1994 at Eilat, Israel.** *J. Raptor Res.* 30: 160–164. (Int. Birding Ctr., P.O. Box 774, Eilat 88000, Israel.)—Data on 24 species.—J.P.S.
- MORPHOLOGY, PHYSIOLOGY, MOLT,
DEVELOPMENT**
- ARROYO, B. E., & J. R. KING. 1996. **Age and sex differences in molt of the Montagu's Harrier.** *J. Raptor Res.* 30: 224–233. (EGI, Dept. Zool., Univ. Oxford, South Parks Rd., Oxford OX1 3PS, UK.)—*Circus pygargus*.
- BAIN, M., ET AL. 1996. **Bird topography—part three.** *Birders J.* 5: 41–43. (210 Byron St. N., Whitby, ON L1N 4N1, Can.)—Illustrated guide to the external morphology of the body.—A.L.L.
- BAIN, M., ET AL. 1996. **Bird topography—part four.** *Birders J.* 5: 97–99. (210 Byron St. N., Whitby, ON L1N 4N1, Can.)—Illustrated guide to the external morphology of the tail.—A.L.L.
- BARTON, N. W., & D. C. HOUSTON. 1996. **Factors influencing the size of some internal organs in raptors.** *J. Raptor Res.* 30: 219–223. (Appl. Ornithol. Unit, Div. Evol. Environ. Biol., Graham Kerr Bldg., Univ. Glasgow, Glasgow, G12 8QQ, Scotland.)—Sizes of small intestines, stomachs, kidneys, livers, and hearts compared among 11 species in relation to hunting habits and body sizes.—J.P.S.
- BARTON, N. W. H., & D. C. HOUSTON. 1993. **A comparison of digestive efficiency in birds of prey.** *Ibis* 135: 363–371. (Appl. Ornithol. Unit, Zool. Dept., Glasgow Univ., Glasgow G12 8QQ, UK.)—Among 10 species of raptors, generalists typically had higher digestive efficiencies than specialists.—J.V.B.
- BENNETT, M. B. 1995. **Interrelationships of crural muscles and tendons in a range of birds.** *J. Zool., Lond.* 235: 33–42. (Dept. Anat. Sci., Univ. Queensland, Brisbane 4072, Australia.)—Avian muscle-tendon units are not optimised for minimisation of mass.—J.K.B.
- BIRKHEAD, T. R., & F. FLETCHER. 1994. **Sperm storage and the release of sperm from the sperm storage tubules of Japanese Quail *Coturnix japonica*.** *Ibis* 136: 101–105. (Dept. Anim. & Plant Sci., P.O. Box 601, Univ. Sheffield, Sheffield S10 2UQ, UK.)
- BIRKHEAD, T. R., M. T. STANBACK, & R. E. SIMMONS. 1993. **The phalloid organ of buffalo weavers *Bubalornis*.** *Ibis* 135: 326–331. (Dept. Anim. & Plant Sci., P.O. Box 601, Univ. Sheffield, Sheffield S10 2UQ, UK.)—Sexually explicit pictures of the male genitalia of *Bubalornis niger* and *Bubalornis albirostris*.—J.V.B.
- BISHOP, C. M., ET AL. 1996. **The morphological development of the locomotor and cardiac muscles of the migratory Barnacle Goose (*Branta leucopsis*).** *J. Zool.* 239: 1–15. (Sch. Biol. Sci., Univ. Birmingham, Edgbaston, Birmingham, UK.)—Muscular mass compared in pre-migratory geese.—A.J.M.
- BONSER, R. H. C. 1996. **The mechanical properties of feather keratin.** *J. Zool.* 239: 477–484. (Flight Mechanics Lab., Sch. Biol. Sci., Univ. Bristol, Woodland Rd., Bristol, BS8 1UG, UK.)—Factors influencing Young's modulus of keratin and their functional implications.—A.J.M.
- BROOKER, M. 1996. **Morphometrics of the Wedge-tailed Eagle *Aquila audax*.** *Corella* 20: 129–135. (CSIRO Div. Wildl. Ecol., LMB 4, Midland, WA 6056, Australia.)—No geographical variation, female larger, some museum specimens mis-sexed.—I.D.E.
- BUCHHOLZ, R. 1996. **Thermoregulatory role of the**

- unfeathered head and neck in male Wild Turkeys.** *Auk* 113: 310–318. (Dept. Zool., Univ. Florida, Gainesville, FL 32611, USA.)—Important cooling effects in *Meleagris gallopavo* at high temperatures.—J.R.F.
- COLLINS, C. T., & E. L. BULL. 1996. **Seasonal variation in body mass of Chimney and Vaux's swifts.** *N. Am. Bird Bander* 21: 143–152. (Dept. Biol. Sci., California State Univ., Long Beach, CA 90840, USA.)—Mass of *Chaetura pelagica* and *Chaetura vauxi* is bimodal: high early in breeding season and peaks just before departure in fall; low during breeding period and at initiation of molt. Premigratory mass gains are small enough to suggest that fat reserves must be replenished during migration.—R.B.C.
- COOPER, J. E. 1996. **A preen gland abnormality in a free-living White-headed Vulture (*Aegypius occipitalis*).** *J. Raptor Res.* 30: 45. (Durrell Inst. Conserv. Ecol., The Univ., Canterbury, Kent CT2 7PD, UK.)—Impaction of uncertain etiology.—J.P.S.
- COTTON, P. 1996. **Body size and the ecology of hummingbirds.** *Symp. Zool. Soc. Lond.* 69: 239–258. (EGI, Dept. Zool., Univ. Oxford, South Parks Rd., Oxford OX1 3PS, UK.)—Body size determined in part by co-evolution with nectar sources and other nectar feeders.—A.J.M.
- DALE, S., & T. SLAGSVOLD. 1996. **Plumage coloration and conspicuousness in birds: Experiments with the Pied Flycatcher.** *Auk* 113: 849–857. (Agric. Univ. Norway, Dept. Biol. Nat. Cons., P.O. Box 5014, N-1432 Ås, Norway.)—Bright and contrasting coloration made individual *Ficedula hypoleuca* more conspicuous to conspecifics.—M.E.B.
- DUVIC, M. V. 1989. **Leucistic Ruby-throated Hummingbird near Byram, Mississippi.** *Mississippi Kite* 19: 17–18. (1735 Wilhurst St., Jackson, MS 39211, USA.)—*Archilochus colubris*.
- DYMOND, J. N. 1996. **Biometric data of birds in southern Yemen and Socotra, spring 1993.** *Sand-grouse* 17: 158–164. (Burgadies, S. Punds, Levenwick, Shefland ZE2 9HX, UK.)
- EBERHARDT, L. S. 1996. **Energy expenditure during singing: A reply to Gaunt et al.** *Auk* 113: 721–723. (Dept. Biol., Valparaiso Univ., Valparaiso, IN 46383, USA.)—*Thryothorus ludovicianus*; response to Auk 113: 718.—S.K.W.
- EGAN, K. 1996. **Morphometrics of eggs of Little Tern.** *Corella* 20: 144. (1 Bowman St., Mortdale, NSW 2223, Australia.)—*Sterna albifrons*; advocates use of mean plus range for reporting data.—I.D.E.
- ESPIE, R. H. M., ET AL. 1996. **Ecological correlates of molt in Merlins (*Falco columbarius*).** *Auk* 113: 363–369. (Dept. Biol., Univ. Regina, Regina, SK S4S 0A2, Can.)—Male molt correlated with several environmental variables and often arrested during breeding season. Female molt less correlated and seldom arrested.—A.D.D.
- GASTON, A. J., & S. PERIN. 1993. **Loss of mass in breeding Brunnich's Guillemots *Uria lomvia* is triggered by hatching.** *Ibis* 135: 472–475. (Can. Wildl. Ser., 100 Gamelin Blvd., Hull, PQ K1A 0H3, Can.)
- GAUNT, A. S., ET AL. 1996. **Is singing costly?** *Auk* 113: 718–721. (Borror Lab. Bioacoustics, Dept. Zool., Ohio State Univ., Columbus, OH 43210, USA.)—Critique of Eberhardt (*Auk* 111: 124) testing energetic costs in *Thryothorus ludovicianus*.—S.K.W.
- GENEVOIS, F., & V. BRETAGNOLLE. 1995. **Sexual dimorphism of voice and morphology in the Thin-billed Prion (*Pachyptila belcheri*).** *Notornis* 42: 1–10. (Ctr. d'études Biol. Chizé, Ctr. Natl. Rech. Sci., F79360 Beauvoir sur Niort, France.)—Discriminant analysis of external characters can be used to sex adults with 80–90% accuracy.—E.O.M.
- GIESEN, K. M. 1992. **Body mass of Columbian Sharp-tailed Grouse in Colorado.** *Prairie Nat.* 24: 191–196. (Colorado Div. Wildl., 317 W. Prospect Rd., Ft. Collins, CO 80526, USA.)—*Tympanuchus phasianellus* from Colorado may be heavier than those from other parts of their range.—S.W.G.
- GOC, M. 1996. **[A Dunlin and a Barred Warbler with additional primaries.]** *Notatki Ornitol.* 37: 327–329. (Katedra Ekologii i Zoologii Krzgowców UG, Al. Legionów 9, 80 441 Gdansk, Poland.)—*Calidris alpina*, *Sylvia nisoria*. (Polish, Engl. summ.)
- HANSROTE, C., & M. HANSROTE. 1996. **Wing chord data—Re-examination of a Pine Siskin irruption in Virginia.** *N. Am. Bird Bander* 21: 88–93. (24 Greenwell Ct., Lynchburg, VA 24502, USA.)—Wing-chord data suggest increasing numbers of ♀ *Carduelis pinus* from Jan to May 1988.—R.B.C.
- HILL, G. E. 1996. **Subadult plumage in the House Finch and tests of models for the evolution of delayed plumage maturation.** *Auk* 113: 858–874. (331 Funchess Hall, Auburn Univ., Auburn, AL 36849, USA.)—Delayed plumage maturation is derived trait associated with reduction in the extent of ornamental plumage in *Carpodacus mexicanus*.—M.E.B.
- HOLBERTON, R. L., J. D. PARISH, & J. C. WINGFIELD. 1996. **Modulation of the adrenocortical stress response in neotropical migrants during autumn migration.** *Auk* 113: 558–564. (Dept. Biol., Univ. Mississippi, University, MS 38677, USA.)—Migrating Gray Catbirds (*Dumetella carolinensis*) and Yellow-rumped Warblers (*Dendroica coronata*) did not have higher corticosterone levels typically associated with acute stress in non-migratory birds.—A.D.D.
- HOLDER, M., & A. KINGSLEY. 1996. **Bird topography—part five.** *Birders J.* 5: 201–204. (17 Flemington Ct., Whitby, ON L1N 5X1, Can.)—Illustrated guide to the external morphology of bare parts.—A.L.L.
- HOUSTON, D. C. 1993. **The incidence of healed fractures to wing bones of White-backed and Rüppell's Griffon Vultures *Gyps africanus* and *Gyps rueppellii* and other birds.** *Ibis* 135: 468–475. (Appl.

- Ornithol. Unit, Zool. Dept., Glasgow Univ., Glasgow G12 8QQ Scotland, UK.)
- HUDON, J., ET AL. 1996. **Characterization of an orange variant of the Bananaquit (*Coereba flaveola*) on La Désirade, Guadeloupe, French West Indies.** *Auk* 113: 715–717. (Prov. Mus. Alberta, 12845-102 Ave., Edmonton, AB T5N 0M6, Can.)—Exogenous sources of orange pigment suspected.—M.E.B.
- HUHTA, E., P. SIKAMÄKI, & J. JOKIMÄKI. 1997. **Small scale geographical variation in plumage colour of Pied Flycatcher males.** *J. Avian Biol.* 28: 92–94. (Dept. Biol. & Environ. Sci., Univ. Jyväskylä, P.O. Box 35, FIN-40351 Jyväskylä, Finland. E-mail: huhta@jytk.jyu.fi)—*Ficedula hypoleuca* darker in northern than southern Finland.—R.T.B.
- JAMIESON, I. G., & H. G. SPENCER. 1996. **The bill and foraging behaviour of the Huia (*Heteralocha acutirostris*): were they unique?** *Notornis* 43: 14–18. (Dept. Zool., P.O. Box 56, Dunedin, NZ.)—Extreme sexual size and shape dimorphism of bills is not unique; African Green Woodhoopoe *Phoeniculus purpureus* shows similar dimorphism. Discuss general function of bill dimorphism.—E.O.M.
- JOHNSON, T. S., ET AL. 1996. **Epaulet brightness and condition in female Red-winged Blackbirds.** *Auk* 113: 356–362. (Dept. Biol., Univ. California, Riverside, CA 92521, USA.)—Bright *Agelaius phoeniceus* females were in better condition, suggesting function in status signalling between females.—D.C.D.
- KEMP, A. C., & T. M. CROWE. 1994. **Morphometrics of falcons and hunting behaviour of the Black-thighed Falconet *Microhierax fringillarius*.** *Ibis* 136: 44–49. (Dept. Birds, Transvaal Mus., P.O. Box 413, Pretoria 0001, South Africa.)
- KIM, H.-B., J.-C. YOO, & P.-O. WON. 1994. **Seasonal fluctuations, biometrics, fat and non-fat masses of Dunlins *Calidris alpina sakhalina* migrating to Sammok Island on the west coast of Korea.** *Kor. J. Ornithol.* 1: 15–24. (Korea Inst. Ornithol., Kyung Hee Univ., Seoul 130-701, Korea.)—Male and female fat stores differ significantly.—J.V.B.
- KOENIG, P. 1996. **[Body mass in postnuptial migrating Skylark (*Alda arvensis*).]** *Schoenichus* 2: 37–42. (Stn. ornithol. de Munchhausen, BP 14, 67660 Betschdorf, France.) (French)
- LANE, S. G. 1997. **An unusual plumage for a Sooty Shearwater *Puffinus griseus*.** *Corella* 21: 16. (66 Fairview Rd., Moonee via Coffs Harbour, NSW 2450, Australia.)—Almost entirely white underwings on measured specimen.—I.D.E.
- LINDSTRÖM, Å., & T. PIERSMA. 1993. **Mass changes in migrating birds: the evidence for fat and protein storage re-examined.** *Ibis* 135: 70–78. (Zool. Lab., Univ. Groningen, P.O. Box 14, 9750 AA Haren, The Netherlands.)—Evidence varies among species.—J.V.B.
- LINDSTRÖM, Å., ET AL. 1993. **The moult of Barred Warblers *Sylvia nisoria* in Kenya—evidence for a split wing-moult pattern initiated during the birds' first winter.** *Ibis* 135: 403–409. (Ottenby Ornithol. Res. Ctr., Pl. 1500, S-380 65 Degerhamn, Sweden.)—Winter molt mainly in late November and December, soon after final leg of autumn migration.—J.V.B.
- LINDSTRÖM, Å. 1997. **Basal metabolic rates of migrating waders in the Eurasian Arctic.** *J. Avian Biol.* 28: 87–92. (Dept. Ecol., Anim. Ecol., Lund Univ., Ecol. Bldg, S-22362 Lund, Sweden. E-mail: Ake.Lindstrom@Zookol.lu.se)—Evidence for seasonal variation in BMR of *Calidris minuta*, *Calidris alpina*, *Calidris alba*, *Calidris ferruginea* and *Arenaria interpres*.—R.T.B.
- LINZ, G. M., ET AL. 1993. **Using geographic variation to predict breeding locales of migrating Red-winged Blackbirds.** *Prairie Nat.* 25: 127–133. (USDA, Denver Wildl. Res. Ctr., North Dakota Field Stn., North Dakota State Univ., Fargo, ND 58105-5517, USA.)—*Agelaius phoeniceus*; ulna is longer at greater latitude and longitude.—S.W.G.
- MENAB, B. K. 1996. **Metabolism and temperature of kiwis (*Apterygidae*).** *Auk* 113: 687–692. (Sch. Biol. Sci., Victoria Univ., Wellington, New Zealand.)—Lowest metabolic rate of all birds explained in an evolutionary context.—M.W.
- MORENO, E., & A. P. MOLLER. 1996. **Morphological aspects of avian tail movements: a functional approach in Hirundines.** *Auk* 113: 647–654. (Dipto. Ecol. Evol., Mus. Nacl. Cienc. Nat., C.S.I.C., José Gutiérrez Abascal, 2, E-28006 Madrid, Spain.)—*Hirundo rustica*, *Delichon urbica*, *Riparia riparia*.
- NIKANDER, P. J. 1997. **Moult of dabbling ducks.** *Alula* 3: 16–21. (c/o Alula, P. O. Box 85, FIN-02271 Espoo, Finland.)—General article on molt, aging and sexing.—E.H.
- NOWAKOWSKI, J. K., & P. ROWINSKI. 1996. **Wing and body mass measurements in the Great Tit *Parus major* in central Poland: errors and methods of standardization.** *Acta Ornithol.* (Warsaw) 31: 107–118. (Dept. Zool., Agric. Teacher's Univ., Prusa 12, 08-110 Siedlce, Poland.)—Residents lighter than migrants along Baltic coast.—J.P.
- ØSTNES, J. E., & C. BECH. 1997. **The early emergence of cold sensation in Shag nestlings *Phalacrocorax aristotelis*.** *J. Avian Biol.* 28: 24–30. (Dept. Zool., Norwegian Univ. Sci. & Technol., N-7034 Trondheim, Norway. E-mail: janos@alfa.avh.unit.no)
- PELLATT, E. J., & T. R. BIRKHEAD. 1994. **Ejaculate size in Zebra Finches *Taeniopygia guttata* and a method for obtaining ejaculates from passerine birds.** *Ibis* 136: 97–101. (Dept. Anim. & Plant Sci., P.O. Box 601, Univ. Sheffield, Sheffield S10 2UQ, UK.)
- PICMAN, J., S. PRIBIL, & A. K. PICMAN. 1996. **The effect of intraspecific egg destruction on the strength of Marsh Wren eggs.** *Auk* 113: 599–607. (Dept. Biol., Univ. Ottawa, 30 Marie Curie, Ottawa, ON K1N 6N5, Can.)—Eggs of *Cistothorus palustris* are stronger than expected based on egg size, apparently

- because eggs are rounder and thicker-shelled than comparably sized eggs of other species.—D.C.D.
- PICMAN, J. 1997. **Are cowbird eggs unusually strong from the inside?** *Auk* 114: 66–73. (Dept. Biol., Univ. Ottawa, Ottawa, ON K1N 6N5, Can.)—*Molothrus ater*; yes.—J.R.F.
- PRINCE, P. A., ET AL. 1993. **Moult in Black-browed and Grey-headed Albatrosses *Diomedea melanophris* and *Diomedea chrysostoma*.** *Ibis* 135: 121–131. (British Antarctic Survey, Nat. Envir. Res. Council, High Cross, Madingley Rd., Cambridge CB3 0ET, UK.)
- REDFERN, C. P. F. 1994. **Variation in the developmental timing of flight-feather growth in nestling birds.** *Ibis* 136: 72–78. (Dept. Med., 4th Fl., Cookson Bldg., Med. Sch., Univ. Newcastle, Newcastle upon Tyne NE2 4HH, UK.)
- SCHOECH, S. J., R. L. MUMME, & J. C. WINGFIELD. 1996. **Prolactin and helping behaviour in the cooperatively breeding Florida Scrub Jay, *Aphelocoma coerulescens coerulescens*.** *Anim. Behav.* 52: 445–456. (Dept. Biol., Indiana Univ., Bloomington, IN 47405, USA.)—Prolactin levels correlated with amount of helping.—A.K.T.
- SEDINGER, J. S., ET AL. 1997. **Influence of hatch date versus maternal and genetic effects on growth of Black Brant goslings.** *Auk* 114: 129–132. (Dept. Biol. Wild., Univ. Alaska, Fairbanks, AK 99775, USA.)—Genetic or maternal effects account for little of seasonal decline in growth of *Branta bernicla nigricans* goslings, while hatching date is significantly related to decline in size.—H.A.W.
- SHEDD, B., & D. SHEDD. 1996. **Albinistic Blue Jay (*Cyanocitta cristata*), in Lynchburg, Virginia.** *Raven* 67: 101–106. (308 Sumpter Crt., Lynchburg, VA 24503, USA.)
- SIEVERT, P. R. 1996. **Water and energy balance constraints on the nesting ecology of marine birds.** Ph.D. dissert., Dept. Biol., Univ. Pennsylvania. (Dept. For. Wildl. Manage., Univ. Massachusetts, Amherst, MA 01003-4210, USA.)—Wedge-tailed Shearwaters (*Puffinus pacificus*) nesting at unshaded sites in the tropics have high water efflux, poor incubation attendance, and low nesting success. In chicks of Leach's Storm-Petrel (*Oceanodroma leucorhoa*), water balance, salt gland function, and growth indicate that these birds are also water limited.—P.R.S.
- WEATHERS, W. W., P. J. HODUM, & D. J. ANDERSON. 1997. **Is the energy cost of begging by nestling passerines surprisingly low?** *Auk* 114: 133. (Dept. Avian Sci., Univ. California, Davis, CA 95616, USA.)—Only if energy is in fact supplied aerobically.—S.K.W.
- WIEHN, J. 1997. **Plumage characteristics as an indicator of male parental quality in the American Kestrel.** *J. Avian Biol.* 28: 47–55. (Lab. Ecol. Zool., Dept. Biol., Univ. Turku, FIN-20014 Turku, Finland. E-mail: jyrwie@sara.cc.utu.fi)—*Falco sparverius*.
- WILLIAMS, J. B. 1996. **A phylogenetic perspective of evaporative water loss in birds.** *Auk* 113: 457–472. (Dept. Zool., Ohio State Univ., 1680 University Dr., Mansfield, OH 44906, USA.)—Data from 102 species for total evaporative water loss suggest new relationships.—J.R.F.
- WINKLER, R., & L. JENNI. 1996. **Terminology in molt and wing feathers: use of descendant, ascendant, and lesser coverts.** *Auk* 113: 968–969. (Nat. Hist. Mus., Augustinergasse 2, CH-4001 Basel, Switzerland.)
- WITMER, M. C. 1996. **Consequences of an alien shrub on the plumage coloration and ecology of Cedar Waxwings.** *Auk* 113: 735–743. (Sec. Ecol. Syst., Corson Hall, Cornell Univ., Ithaca, NY 14853, USA.)—*Bombycilla cedrorum* rectrices have orange tips when produced by birds with diets dominated by berries of *Lonicera morrowii*.—A.D.D.
- WORCESTER, S. E. 1996. **The scaling of the size and stiffness of primary flight feathers.** *J. Zool.* 239: 609–624. (Dept. Biol., Univ. Utah, Salt Lake City, UT 84112, USA.)
- YONG, W., & D. FINCH. 1997. **A partly albino Wilson's Warbler (*Wilsonia pusilla*).** *New Mexico Ornithol. Soc. Bull.* 25: 3–5. (Nat. Resour. Sci., 210B Woodward Hall, Univ. Rhode Island, Kingston, RI 02881, USA.)—Detailed description & monochrome photo.—R.B.C.
- YUNICK, R. P. 1996. **The occurrence of green-morph Pine Siskins in the siskin irruption of 1989–1990.** *N. Am. Bird Bander* 21: 85–87. (1527 Myran St., Schenectady, NY 12309-4223, USA.)—51 *Carduelis pinus* captured in New York; relatively most abundant in May, predominantly males.—R.B.C.

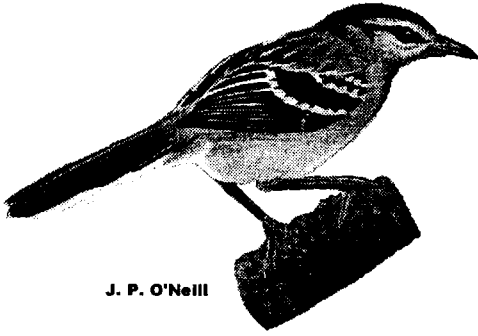
PALEONTOLOGY, ZOOARCHAEOLOGY, ETHNOBIOLOGY

- BOCHENSKI, Z. 1996. [*Enantiornithes*—a dominant group of the Cretaceous terrestrial birds.] *Przegl. Zool.* 40: 175–184. (Inst. Syst. Evol. Anim. PAS, Slawkowska 17, 31-016 Kraków, Poland.)—*Enantiornithes* could not fly well enough to cross large seas and disperse widely by the lower Cretaceous; hence, they probably radiated much earlier in the Bajocian (Middle Jurassic). (Polish, Engl. summ.)—J.P.
- BOLES, W. A. 1997. **Fossil songbirds (Passeriformes) from the Early Eocene of Australia.** *Emu* 97: 43–50. (Div. Vert. Zool. (Birds), Aust. Mus., 6 College St., Sydney, NSW 2000, Australia.)—Older by 25 million years than oldest northern hemisphere record; supports southern origin of order.—S.R.P.
- BOLES, W. E. 1993. **A new cockatoo (Psittaciformes, Cacatuidae) from the Tertiary of Riversleigh, northwestern Queensland, and an evaluation of rostral characters in the systematics of parrots.** *Ibis*

- 135: 8–18. (Div. Vert. Zool. (Birds), Australian Mus., 6–8 College St., Sydney, NSW 2000, Australia.)—Probably closely related to living *Cacatua roseicapilla*.—J.V.B.
- HOLDAWAY, R. N., & T. H. WORTHY. 1996. **Diet and biology of the laughing owl *Sceloglaux albifacies* (Aves Strigidae) on Takaka Hill, Nelson, New Zealand.** *J. Zool.* 239: 545–572. (Dept. Zool., Univ. Canterbury, Private Bag 4800, Christchurch, NZ.)—Fossil deposits demonstrate change in diet after the arrival of Polynesian rat *Rattus exulans*.—A.J.M.
- SPENCER, J. W. 1996. **Ostrich *Struthio camelus* eggshell fragments in Yemen.** *Sandgrouse* 17: 130–131. (123 Greenham Rd., Newbury, Berks. RG14 7JE, UK.)
- PESTICIDES AND POLLUTION**
- BLUS, L. J. 1996. **Effects of pesticides on owls in North America.** *J. Raptor Res.* 30: 198–206. (USGS, Willamette Res. Stn., 3080 SE Clearwater Dr., Corvallis, OR 97333, USA.)—Comprehensive literature review.—J.P.S.
- BURGER, J. 1996. **Heavy metal and selenium levels in feathers of Franklin's Gulls in interior North America.** *Auk* 113: 399–407. (Ecol. Evol. Graduate Prog., Rutgers Univ., Piscataway, NJ 08855, USA.)—Levels in breast feathers of adult and juvenile *Larus pipixcan* within range reported for other birds.—H.A.W.
- CRAFT, R. A., & K. P. CRAFT. 1996. **Use of free ranging American Kestrels and nest boxes for contaminant risk assessment sampling: a field application.** *J. Raptor Res.* 30: 207–212. (Edith Angel Environ. Res. Ctr., Inst. Wildl. Environ. Toxicol., Clemson Univ., Rt. 2, Box 106A, Chariton, IA 50049, USA.)—*Falco sparverius* nest productivity not affected by organochlorine exposure and post-hatching productivity not affected by biological sampling intensity, but pre-hatching nest failures increased with frequent sampling.—J.P.S.
- GOLDSTEIN, M. I., ET AL. 1996. **An assessment of mortality of Swainson's Hawks on wintering grounds in Argentina.** *J. Raptor Res.* 30: 106–107. (Inst. Wildl. Environ. Toxicol., P.O. Box 709, Pendleton, SC 29670, USA.)—Document 4 new cases of large-scale mortality of *Buteo swainsoni* from exposure to pesticides used to control grasshoppers.—J.P.S.
- LEBEDEVA, N. V. 1994. **Bird populations in environments contaminated with Sr-90.** *Ann. Upper Silesian Mus., Nat. Hist.* 14: 117–122. (Dept. Ecol., Rostov State Univ., ul. Bol. Sadovaya 105, 344006 Rostov on Don, Russia.)—Nesting biology of *Parus major* and *Ficedula hypoleuca* in area of eastern Urals polluted with Sr-90.—J.P.
- NEWTON, I., ET AL. 1996. **Wildlife and pollution 1995/96 annual report.** JNCC Report 262. (Monks Wood Exp. Stn., Abbots Ripton, Huntingdon, PE17 3LS, UK.)—Includes data on organochlorines and mercury in raptors.—J.V.B.
- OLSON, M. M., & D. WELSH. 1993. **Selenium in Eared Grebe embryos from Stewart Lake National Wildlife Refuge, North Dakota.** *Prairie Nat.* 25: 119–126. (USFWS, 1500 Capitol Ave., Bismarck, ND 58501, USA.)—16% of *Podiceps nigricollis* embryos were dead, but no deformities were noted, in spite of relatively high concentrations.—S.W.G.
- PAIN, D. J., ET AL. 1993. **Lead poisoning in wild populations of Marsh Harriers *Circus aeruginosus* in the Camargue and Charente-Maritime, France.** *Ibis* 135: 379–386. (RSPB, The Lodge, Sandy, Bedfordshire SG19 2DL, UK.)
- WOOD, P. B., ET AL. 1996. **Environmental contaminant level in Sharp-shinned Hawks from the eastern United States.** *J. Raptor Res.* 30: 136–144. (W. Virginia Coop. Fish Wildl. Res. Unit, P.O. Box 6125, Morgantown, WV 26506-6125, USA.)—DDE, PCBs, and mercury detected most often in 23 blood, 10 brain, and 31 liver samples from *Accipiter striatus*, but no lethal concentrations found (one possible exception) and reproductive impairment unlikely.—J.P.S.
- MISCELLANEOUS**
- ABSETZ, K. 1997. **Aiming device for angled view telescopes.** *Alula* 3: 36–37. (c/o Alula, P. O. Box 5, FIN-02271 Espoo, Finland).—E. H.
- ALCOCK, J. 1996. **Male size and survival: the effects of male combat and bird predation in Dawson's burrowing bees, *Amegilla dawsoni*.** *Ecol. Entomol.* 21: 309–316. (Dept. Zool., Arizona State Univ., Tempe, AZ 85827-1501, USA.)—Male size and behavioral dichotomy is maintained in Dawson's burrowing bees owing to greater risk of predation by Pied Butcherbird (*Cracticus nigrogularis*) and injury from conspecific rivals in 1 of the male morphologies.—D.E.W.D.
- CRAMM, A. 1995. **Collection planning: the process and important points—the future of avian collections.** AZA Reg. Conf. Proc. 1995: 172–173. (Lincoln Park Zoo, 2200 N. Cannon Dr., Chicago, IL 60614, USA.)
- DIEBOLD, E. N. 1995. **Raptor TAG [Taxon Advisory Group] regional collection plan (RCP) workshop: the process.** AZA Reg. Conf. Proc. 1995: 185–191. (Milwaukee Co. Zoo, 10001 Bluemound Rd., Milwaukee, WI 53226, USA.)
- DIEBOLD, E. N. 1995. **The Johnson-HIHN technique: defining the attributes and qualities.** AZA Reg. Conf. Proc. 1995: 202–203. (Milwaukee Co. Zoo; 10001 Bluemound Rd., Milwaukee, WI 53226, USA.)—A decision-making technique for experts.—J.C.J.
- KIKKAWA, J. 1997. **Individual colour banding for 8000 birds.** *Corella* 21: 26–31. (Dept. Zool., Univ.

- Qld., Brisbane, Qld. 4072, Australia.)—10 unique colours translate to a numbering system.—I.D.E.
- KNOX, A. G. 1993. **Richard Meinertzhagen—a case of fraud examined.** *Ibis* 135: 320–325. (Glebe House, 77 Leighton Rd., Wingrave, Buckinghamshire HP22 4PA, UK.)—Cautions against using data at face value from specimens in the Meinertzhagen collection.—J.V.B.
- MCGILL, P. 1995. **Issues involved in developing an institutional collection plan.** AZA Reg. Conf. Proc. 1995: 174–177. (Brookfield Zoo, 3300 Golf Rd., Brookfield, IL 60513, USA.)—For zoo avian collections.—J.C.J.
- ROSE, A. M. 1997. **Band discomfort on Rufous Tree-creeper *Climacteris rufa*.** *Corella* 21: 25. (Dept. Conserv. Land Manage., Locked Bag 104, Bentley Delivery Ctr., Bentley, WA 6983, Australia.)—Band slips back to intertarsal joint as bird climbs trunk.—I.D.E.
- SAGE, L. C. 1995. **Using the Johnson-HIHN Technique.** AZA Reg. Conf. Proc. 1995: 196–200. (Dept. Econ., Baldwin-Wallace Coll., Berea, OH 44017, USA.)—A decision-making technique for experts.—J.C.J.
- SHEPPARD, C., W. WORTH, & L. SAGE. 1995. **Ranking of criteria used for identifying regional collection taxon priorities.** AZA Reg. Conf. Proc. 1995: 201. (Bronx Zoo/Wild. Soc., 185th St. & South. Blvd., Bronx, NY 10460, USA.)
- SHEPPARD, C. 1995. **Regional collection planning: strategies and process.** AZA Reg. Conf. Proc. 1995: 192–195. (Bronx Zoo/Wildl. Conserv. Soc., 185th & South. Blvd., Bronx, NY 10460, USA.)
- SIEGEL, C. E. 1995. **Creating a staff-driven bird collection master plan at the Dallas Zoo.** AZA Reg. Conf. Proc. 1995: 178–181. (Dallas Zoo, 621 E. Clarendon, Dallas, TX 75203, USA.)
- TOFFIC, G. 1995. **A history of animal collection planning at the Woodland Park Zoo.** AZA Reg. Conf. Proc. 1995: 182–184. (Woodland Park Zoological Grdn., 5500 Phinney Ave. N., Seattle, WA 98103, USA.)

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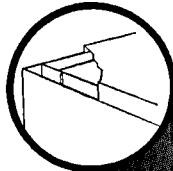
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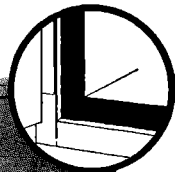
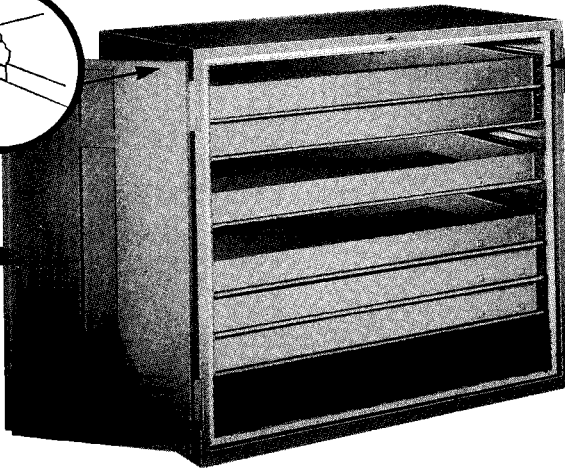
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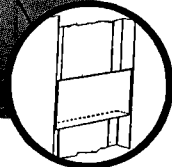
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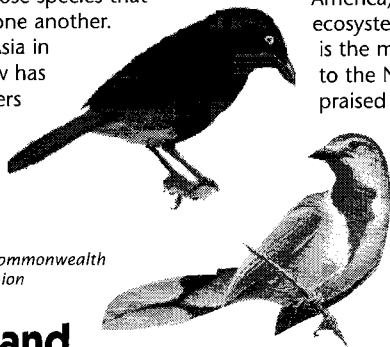
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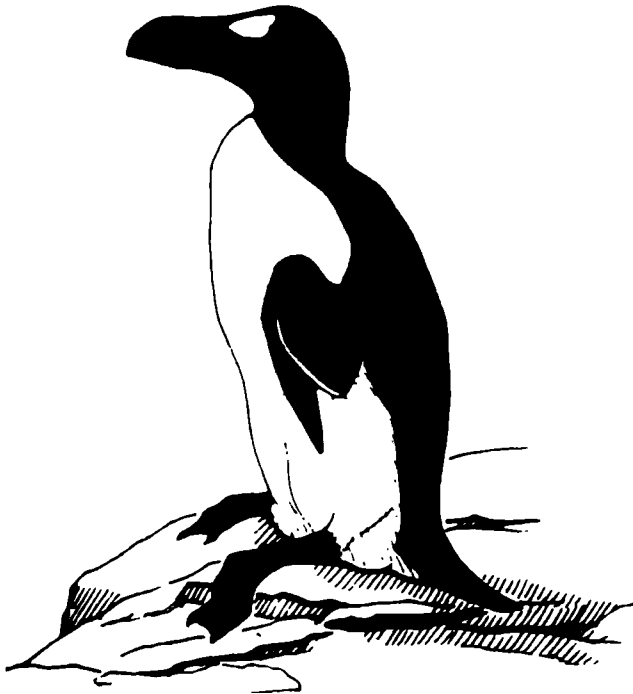
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Contents of Volume 114



NUMBER 1

NEW <i>AETHOPYGA</i> SUNBIRDS (AVES: NECTARINIIDAE) FROM THE ISLAND OF MINDANAO, PHILIPPINES. <i>Robert S. Kennedy, Pedro C. Gonzales, and Hector C. Miranda, Jr.</i>	1
DETERMINANTS OF INTRASPECIFIC BROOD AMALGAMATION IN WATERFOWL. <i>Guy Beauchamp</i>	11
SEX DIFFERENCES IN THE VOCALIZATIONS AND SYRINX OF THE COLLARED DOVE (<i>STREPTOPELIA DECAECTO</i>). <i>Mechteld R. Ballintijn and Carel ten Cate</i>	22
HABITAT ASSOCIATIONS OF SONG CHARACTERISTICS IN <i>PHYLLOSCOPUS</i> AND <i>HIPPOLAIS</i> WARBLERS. <i>Alexander V. Badyaev and Elizabeth S. Leaf</i>	40
THE EFFECTS OF HATCHING DATE AND PARENTAL QUALITY ON CHICK GROWTH AND CRECHING AGE IN THE CHINSTRAP PENGUIN (<i>PYGOSCELIS ANTARCTICA</i>): A FIELD EXPERIMENT. <i>Juan Moreno, Andrés Barbosa, Jaime Potti, and Santiago Merino</i>	47
DOES HUMAN INTRUSION ALTER THE SEASONAL TIMING OF AVIAN SONG DURING BREEDING PERIODS? <i>Kevin J. Gutzwiller, Elizabeth A. Kroese, Stanley H. Anderson, and Charles A. Wilkins</i>	55
ARE COWBIRD EGGS UNUSUALLY STRONG FROM THE INSIDE? <i>Jaroslāv Picman</i>	66
CHANGES IN BREEDING BIRD POPULATIONS IN NORTH DAKOTA: 1967 TO 1992–93. <i>Lawrence D. Igl and Douglas H. Johnson</i>	74
SOURCES OF VARIATION IN WATERFOWL SURVIVAL RATES. <i>David G. Krementz, Richard J. Barker, and James D. Nichols</i>	93
EFFECTS OF ACUTE THERMAL STRESS ON THE IMMUNE SYSTEM OF THE NORTHERN BOBWHITE (<i>COLINUS VIRGINIANUS</i>). <i>C. B. Dabbert, R. L. Lochmiller, and R. G. Teeter</i>	103
IN MEMORIAM: THEODORE A. PARKER III, 1953–1993. <i>John M. Bates and Thomas S. Schulenberg</i>	110
IN MEMORIAM: MERRILL WOOD, 1908–1992. <i>Edward H. Burt, Jr.</i>	111
SHORT COMMUNICATIONS AND COMMENTARIES	
A sexually selected paradox in the Pied Flycatcher: Attractive males are cuckolded. <i>Jan T. Lifjeld, Tore Slagsvold, Svein Dale, and Hans Ellegren</i>	112
Nest-site selection and reproductive success in Common Ravens. <i>Jeffrey R. Dunk, Roger N. Smith, and Steven L. Cain</i>	116
Social and sexual monogamy in translocated New Zealand Robin populations detected using minisatellite DNA. <i>Simone L. Ardern, Wei Ma, John G. Ewen, Doug P. Armstrong, and David M. Lambert</i>	120
Skin from feet of museum specimens as a non-destructive source of DNA for avian genotyping. <i>Nicholas I. Mundy, Philip Unitt, and David S. Woodruff</i>	126
Influence of hatch date versus maternal and genetic effects on growth of Black Brant goslings. <i>James S. Sedinger, Mark S. Lindberg, Michael Eichholz, and Nathan Chelgren</i>	129
Is the energy cost of begging by nestling passerines surprisingly low? <i>Wesley W. Weathers, Peter J. Hodum, and David J. Anderson</i>	133
Is begging cheap? <i>Simon Verhulst and Popko Wiersma</i>	134
The role of energetic costs in the evolution of begging behavior of nestling passerines. <i>John P. McCarty</i>	135
Double jeopardy and the parameterization of brood reduction models: A comment on Mock and Forbes (1994). <i>Scott H. Stoleson</i>	137
Abiotic factors and preoosting behavior of Greylag Geese: A comment. <i>Stéphan G. Reeb</i>	140
Abiotic factors and preoosting behavior of Greylag Geese: Response to Reeb. <i>Alain Schmitt</i>	142
WILLIAM BREWSTER MEMORIAL AWARD, 1996: KENNETH P. ABLE	144

ELLIOT COUES AWARD, 1996: ELLEN D. KETTERSON	145
REVIEWS. <i>Edited by Robert M. Zink</i>	147
ANNOUNCEMENT	161

NUMBER 2

FEEDING BEHAVIOR, FLOCK-SIZE DYNAMICS, AND VARIATION IN SEXUAL SELECTION IN CROSS-BILLS. <i>Craig W. Benkman</i>	163
AN ALTERNATIVE HYPOTHESIS FOR HEAVIER PARASITE LOADS OF BRIGHTLY COLORED BIRDS: EXPOSURE AT THE NEST. <i>Mary C. Garvin and J. V. Remsen, Jr.</i>	179
LAYING ORDER AFFECTS INCUBATION DURATION IN THE BLACK KITE (<i>MILVUS MIGRANS</i>): COUNTERACTING HATCHING ASYNCHRONY? <i>Javier Viñuela</i>	192
NUTRITIONAL DETERMINANTS OF DIET IN THREE TURACOS IN A TROPICAL MONTANE FOREST. <i>Chin Sun, Timothy C. Moermond, and Thomas J. Givnish</i>	200
HOST-EGG REMOVAL BY BROWN-HEADED COWBIRDS: A TEST OF THE HOST INCUBATION LIMIT HYPOTHESIS. <i>D. Glen McMaster and Spencer G. Sealy</i>	212
TESTICULAR ASYMMETRY AND SECONDARY SEXUAL CHARACTERS IN RED JUNGLE-FOWL. <i>Rebecca T. Kimball, J. David Ligon, and Michele Merola-Zwartjes</i>	221
GROWTH AND ORGAN DEVELOPMENT IN GREATER SNOW GOOSE GOSLINGS. <i>Louis Lesage and Gilles Gauthier</i>	229
INTERACTION OF OSMOTIC AND VOLEMIC COMPONENTS IN INITIATING SALT-GLAND SECRETION IN PEKIN DUCKS. <i>Darin C. Bennett, Maryanne R. Hughes, Cristina N. De Sobrino, and David A. Gray</i>	242
MOLT AND MIGRATION IN THE NORTHERN ROUGH-WINGED SWALLOW. <i>Tamaki Yuri and Sievert Rohwer</i>	249
SPRING STOPOVER OF INTERCONTINENTAL MIGRATORY THRUSHES ALONG THE NORTHERN COAST OF THE GULF OF MEXICO. <i>Wang Yong and Frank R. Moore</i>	263
DOMINANCE, AGE, AND REPRODUCTIVE SUCCESS IN A COMPLEX SOCIETY: A LONG-TERM STUDY OF THE MEXICAN JAY. <i>Jerram L. Brown, Esther R. Brown, Joseph Sedransk, and Shannon Ritter</i>	279
IN MEMORIAM: HUSTACE H. POOR, 1914–1996. <i>James Baird</i>	287
SHORT COMMUNICATIONS AND COMMENTARIES	
Age of first breeding in Merlins (<i>Falco columbarius</i>). <i>David J. Lieske, Lynn W. Oliphant, Paul C. James, Ian G. Warrentin, and Richard H. M. Espie</i>	288
Problems with removal experiments designed to test the relationship between paternity and parental effort in a socially polyandrous bird. <i>Ian G. Jamieson and James S. Quinn</i>	291
Crows do not use automobiles as nutcrackers: Putting an anecdote to the test. <i>Daniel A. Cristol, Paul V. Switzer, Kara L. Johnson, and Leah S. Walke</i>	296
Black-capped Chickadees and Red-breasted Nuthatches "weigh" sunflower seeds. <i>Bernd Heinrich, Chris C. Joerg, Sean S. Madden, and Emory W. Sanders, Jr.</i>	298
<i>Mononykus</i> and birds: Methods and evidence. <i>Luis Chiappe, Mark Norrell, and James Clark</i>	300
On the origin of some birds collected by George Such, and the type localities of several forms. <i>José Fernando Pacheco and Bret M. Whitney</i>	303
REVIEWS. <i>Edited by Carl D. Marti</i>	306

NUMBER 3

PHYLOGENETIC PLACEMENT OF <i>MIMIZUKU GURNEYI</i> (AVES: STRIGIDAE) INFERRED FROM MITOCHONDRIAL DNA. <i>Hector C. Miranda, Jr., Robert S. Kennedy, and David P. Mindell</i>	315
VARIATION IN LIFE-HISTORY TRAITS AND NEST-SITE SELECTION AFFECTS RISK OF NEST PREDATION IN THE CALIFORNIA GNATCATCHER. <i>Keith W. Sockman</i>	324

SIZE-DEPENDENT VARIATION IN REPRODUCTIVE SUCCESS OF A LONG-LIVED SEABIRD, THE ANTARCTIC PETREL (<i>THALASSOICA ANTARCTICA</i>). <i>Bernt-Erik Sæther, Svein-Håkon Lorentsen, Torkild Tveraa, Reidar Andersen, and Hans Christian Pedersen</i>	333
ENERGETICS AND THERMOREGULATION BY SMALL PASSERINES OF THE HUMID, LOWLAND TROPICS. <i>Wesley W. Weathers</i>	341
SURVIVAL, PRODUCTIVITY, AND ABUNDANCE IN A WILSON'S WARBLER POPULATION. <i>Mary K. Chase, Nadav Nur, and Geoffrey R. Geupel</i>	354
DECLINES IN ABUNDANCE AND SPECIES RICHNESS OF BIRDS FOLLOWING A MAJOR FLOOD ON THE UPPER MISSISSIPPI RIVER. <i>Melinda G. Knutson and Erwin E. Klaas</i>	367
NEST-SITE SELECTION BY MALLARDS AND BLUE-WINGED TEAL IN RELATION TO MICROCLIMATE. <i>Mark L. Gloutney and Robert G. Clark</i>	381
FORAGING ECOLOGY OF THREE SYMPATRIC TURACOS IN A MONTANE FOREST IN RWANDA. <i>Chin Sun and Timothy C. Moermond</i>	396
PIGEON HOMING: EFFECTS OF MAGNETIC PULSES ON INITIAL ORIENTATION. <i>Robert C. Beason, Roswitha Wiltschko, and Wolfgang Wiltschko</i>	405
NATAL AND BREEDING DISPERSAL IN AMERICAN AVOCETS. <i>Julie A. Robinson and Lewis W. Oring</i>	416
CAPTURE-RECAPTURE ANALYSIS OF A WINTERING BLACK-CAPPED CHICKADEE POPULATION IN CONNECTICUT, 1958–1993. <i>Gordon Loery, James D. Nichols, and James E. Hines</i>	431
LANDSCAPE MODIFICATION AND PATCH SELECTION: THE DEMOGRAPHY OF TWO SECONDARY CAVITY NESTERS COLONIZING CLEARCUTS. <i>Rachel F. Holt and Kathy Martin</i>	443
WIND ASSISTANCE: A REQUIREMENT FOR MIGRATION OF SHOREBIRDS? <i>Robert W. Butler, Tony D. Williams, Nils Warnock, and Mary Anne Bishop</i>	456
USING STABLE-ISOTOPE ANALYSIS TO IDENTIFY ENDOGENOUS AND EXOGENOUS SOURCES OF NUTRIENTS IN EGGS OF MIGRATORY BIRDS: APPLICATIONS TO GREAT LAKES CONTAMINANTS RESEARCH. <i>Keith A. Hobson, Kimberley D. Hughes, and Peter J. Ewins</i>	467
COMPOSITION OF WOOD DUCK EGGS IN RELATION TO EGG SIZE, LAYING SEQUENCE, AND SKIPPED DAYS OF LAYING. <i>Robert A. Kennamer, Sarah K. Alsum, and Sheila V. Colwell</i>	479
OSMOREGULATION BY ADÉLIE PENGUIN CHICKS ON THE ANTARCTIC PENINSULA. <i>Donald N. Janes</i>	488
IN MEMORIAM: ALLAN R. PHILLIPS, 1914–1996. <i>Robert W. Dickerman and Amadeo M. Rea</i>	496
IN MEMORIAM: FREDERICK M. BAUMGARTNER, 1910–1996. <i>William A. Carter</i>	500
IN MEMORIAM: EDVARD K. BARTH, 1913–1996. <i>Svein Haftorn</i>	501
IN MEMORIAM: HOLGER HOLGERSEN, 1914–1996. <i>Svein Haftorn</i>	502
SHORT COMMUNICATIONS AND COMMENTARIES	
Partial rejection of immaculate foreign eggs by Yellow-breasted Chats. <i>Dirk E. Burhans and Phillip C. Freeman</i>	503
Correlates of egg-size variation in polygynously breeding Northern Lapwings. <i>Gaute Bø Grønstøl</i>	507
Early description of the Black Vulture on the American continent. <i>Rodolfo Salas-Auvert and A. Viloria</i>	513
Can passerines synthesize vitamin C? <i>Carlos Martínez del Rio</i>	513
Sex identification of South American parrots (Psittacidae, Aves) using the human minisatellite probe 33.15. <i>Cristina Y. Miyaki, J. Maurício B. Duarte, Renato Caparroz, Adauto L. V. Nunes and Anita Wajntal</i>	516
Migration by radio-tagged Pacific Golden-Plovers from Hawaii to Alaska, and their subsequent survival. <i>Oscar W. Johnson, Nils Warnock, Mary Anne Bishop, Alan J. Bennett, Patricia M. Johnson, and Ronald J. Kienholz</i>	521
The effects of fluctuating food availability on breeding Arctic Terns (<i>Sterna paradisaea</i>). <i>D. Suddaby and N. Ratcliffe</i>	524
REVIEWS. <i>Edited by Carl D. Marti</i>	531
FORTY-FIRST SUPPLEMENT TO THE AMERICAN ORNITHOLOGISTS' UNION CHECK-LIST OF NORTH AMERICAN BIRDS	542

NUMBER 4

BROOD DIVISION IS ASSOCIATED WITH FLEDGLING DISPERSION IN THE BLUETHROAT (<i>LUSCINIA S. SVECICA</i>). <i>Kristin Anthonisen, Christin Krokene, and Jan T. Lifjeld</i>	553
UPTAKE OF INGESTED CALCIUM DURING EGG PRODUCTION IN THE ZEBRA FINCH (<i>TAENIOPYGIA GUTTATA</i>). <i>S. James Reynolds</i>	562
EXTREME SEXUAL SIZE DIMORPHISM, SEXUAL SELECTION, AND THE FORAGING ECOLOGY OF MONTEZUMA OROPENDOLAS. <i>Michael S. Webster</i>	570
LIFETIME REPRODUCTIVE SUCCESS IN BARN OWLS NEAR THE LIMIT OF THE SPECIES' RANGE. <i>Carl D. Marti</i>	581
IS THERE A SEXUAL CONFLICT OVER HATCHING ASYNCHRONY IN AMERICAN ROBINS? <i>Tore Slagsvold</i>	593
ASSOCIATION OF WITHIN-TERRITORY VEGETATION CHARACTERISTICS AND FITNESS COMPONENTS OF CALIFORNIA GNATCATCHERS. <i>Gerald T. Braden, Robert L. McKernan, and Shawn M. Powell</i>	601
NEST MORPHOLOGY AND BODY SIZE OF ROSS' GEESE AND LESSER SNOW GEESE. <i>Kevin G. McCracken, Alan D. Afton, and Ray T. Alisauskas</i>	610
EFFECTS OF INSECTICIDE-INDUCED REDUCTION IN LEPIDOPTERAN LARVAE ON REPRODUCTIVE SUCCESS OF HOODED WARBLERS. <i>Laura R. Nagy and Kimberly G. Smith</i>	619
ROOSTING BEHAVIOR AND GROUP TERRITORIALITY IN AMERICAN CROWS. <i>Donald F. Caccamise, Lisa M. Reed, Jerzy Romanowski, and Philip C. Stouffer</i>	628
NEST-SITE SELECTION IN SOUTH POLAR SKUAS: BALANCING NEST SAFETY AND ACCESS TO RESOURCES. <i>Julie C. Hagelin and Gary D. Miller</i>	638
A COMPARISON OF THE BREEDING ECOLOGY OF BIRDS NESTING IN BOXES AND TREE CAVITIES. <i>Kathryn L. Purcell, Jared Verner, and Lewis W. Oring</i>	646
THE RELATIVE IMPORTANCE OF NESTING AND FORAGING SITES IN SELECTION OF BREEDING TERRITORIES BY TOWNSEND'S WARBLERS. <i>Steven M. Matsuoka, Colleen M. Handel, Daniel D. Roby, and Dana L. Thomas</i>	657
PARENTAL CALLS AND NESTLING BEHAVIOR IN TREE SWALLOWS. <i>Marty L. Leonard, Nicole Fernandez, and Glen Brown</i>	668
SPATIAL USE AND HABITAT SELECTION OF GOLDEN EAGLES IN SOUTHWESTERN IDAHO. <i>John M. Marzluff, Steven T. Knick, Mark S. Vekasy, Linda S. Schueck, and Thomas J. Zarriello</i>	673
CHANGES IN PROTEIN AND ELECTROLYTE CONCENTRATIONS IN THE PECTORAL AND LEG MUSCLES DURING AVIAN DEVELOPMENT. <i>In-Ho Choi and Robert E. Ricklefs</i>	688
AGE-RELATED DIFFERENCES IN THE STOPOVER OF FALL LANDBIRD MIGRANTS ON THE COAST OF ALABAMA. <i>Mark S. Woodrey and Frank R. Moore</i>	695
EASTERN TOWHEE NUMBERS INCREASE FOLLOWING DEFOLIATION BY GYPSY MOTHS. <i>Jennifer L. Bell and Robert C. Whitmore</i>	708
DOES SHADING BEHAVIOR OF INCUBATING SHOREBIRDS IN HOT ENVIRONMENTS COOL THE EGGS OR THE ADULTS? <i>Colleen T. Downs and David Ward</i>	717
SIGNIFICANCE OF STOMACH OIL FOR REPRODUCTION IN SEABIRDS: AN INTERSPECIES CROSS-FOSTERING EXPERIMENT. <i>Daniel D. Roby, Jan R. E. Taylor, and Allen R. Place</i>	725
AGE-SPECIFIC REPRODUCTION IN THREE SPECIES OF EUROPEAN DUCKS. <i>Peter Blums, Gary R. Hepp, and Aivars Mednis</i>	737
IN MEMORIAM: JOHN WARREN ALDRICH, 1906-1995. <i>Richard C. Banks</i>	748
IN MEMORIAM: BEATRICE WETMORE, 1910-1997. <i>Storrs L. Olson</i>	751
IN MEMORIAM: SAMUEL A. GRIMES, 1906-1996. <i>Margaret C. Powell</i>	753

SHORT COMMUNICATIONS AND COMMENTARIES

Population limitation in Neotropical migratory birds: Comments on Rappole and McDonald (1994). <i>Steven C. Latta and Michael E. Baltz</i>	754
Estimating lipid and lean masses in a wintering passerine: An evaluation of TOBEC. <i>Michael F. Burger</i>	762
Nest predation in Black-capped Chickadees: How safe are cavity nests? <i>Beth J. Christman and André A. Dhondt</i>	769
Geographical trends in clutch size: A range-wide relationship with laying date in American Pipits. <i>Paul Hendricks</i>	773
Defining cavity-associated interactions between Red-cockaded Woodpeckers and other cavity-dependent species: Interspecific competition or cavity kleptoparasitism? <i>John J. Kappes, Jr.</i>	778
Interspecific aggression in <i>Formicarius</i> antthrushes? The view from central Amazonian Brazil. <i>Philip C. Stouffer</i>	780
Influence of weather on breeding success of Peregrine Falcons in the arctic. <i>Mark Bradley, Robin Johnstone, Gordon Court, and Tom Duncan</i>	786
Breeding-cycle patterns of sperm storage in the Pied Flycatcher (<i>Ficedula hypoleuca</i>). <i>T. R. Birkhead, J. V. Briskie, J. T. Liffeld, and T. Slagsvold</i>	792
Carotenoid availability and plumage coloration in a wild population of Northern Cardinals. <i>Susan U. Linville and Randall Breitwisch</i>	796
A single functional testis as a unique proximate mechanism promoting sex-role reversal in coucals. <i>J. David Ligon</i>	800
REVIEWS. <i>Edited by Carl D. Marti</i>	802
REVIEWERS FOR <i>THE AUK</i> , 1997	592, 637, 687
INDEX TO VOLUME 114. <i>Compiled by Jeffrey S. Marks and Kelly A. Corll</i>	816

SUPPLEMENTS

RECENT ORNITHOLOGICAL LITERATURE	No. 71, 1-105
	No. 72, 1-103
	No. 73, 1-70
	No. 74, 1-60

DATES OF ISSUES OF "THE AUK"

VOL. 114, No. 1—21 JANUARY 1997

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Contents (continued)



SPATIAL USE AND HABITAT SELECTION OF GOLDEN EAGLES IN SOUTHWESTERN IDAHO. <i>John M. Marzluff, Steven T. Knick, Mark S. Vekasy, Linda S. Schueck, and Thomas J. Zarriello</i>	673
CHANGES IN PROTEIN AND ELECTROLYTE CONCENTRATIONS IN THE PECTORAL AND LEG MUSCLES DURING AVIAN DEVELOPMENT. <i>In-Ho Choi and Robert E. Ricklefs</i>	688
AGE-RELATED DIFFERENCES IN THE STOPOVER OF FALL LANDBIRD MIGRANTS ON THE COAST OF ALABAMA. <i>Mark S. Woodrey and Frank R. Moore</i>	695
EASTERN TOWHEE NUMBERS INCREASE FOLLOWING DEFOLIATION BY GYPSY MOTHS. <i>Jennifer L. Bell and Robert C. Whitmore</i>	708
DOES SHADING BEHAVIOR OF INCUBATING SHOREBIRDS IN HOT ENVIRONMENTS COOL THE EGGS OR THE ADULTS? <i>Colleen T. Downs and David Ward</i>	717
SIGNIFICANCE OF STOMACH OIL FOR REPRODUCTION IN SEABIRDS: AN INTERSPECIES CROSS-FOSTERING EXPERIMENT. <i>Daniel D. Roby, Jan R. E. Taylor, and Allen R. Place</i>	725
AGE-SPECIFIC REPRODUCTION IN THREE SPECIES OF EUROPEAN DUCKS. <i>Peter Blums, Gary R. Hepp, and Aivars Mednis</i>	737
IN MEMORIAM: JOHN WARREN ALDRICH, 1906–1995. <i>Richard C. Banks</i>	748
IN MEMORIAM: BEATRICE WETMORE, 1910–1997. <i>Storrs L. Olson</i>	751
IN MEMORIAM: SAMUEL A. GRIMES, 1906–1996. <i>Margaret C. Powell</i>	753
SHORT COMMUNICATIONS AND COMMENTARIES	
Population limitation in Neotropical migratory birds: Comments on Rappole and McDonald (1994). <i>Steven C. Latta and Michael E. Baltz</i>	754
Estimating lipid and lean masses in a wintering passerine: An evaluation of TOBEC. <i>Michael F. Burger</i>	762
Nest predation in Black-capped Chickadees: How safe are cavity nests? <i>Beth J. Christman and André A. Dhondt</i>	769
Geographical trends in clutch size: A range-wide relationship with laying date in American Pipits. <i>Paul Hendricks</i>	773
Defining cavity-associated interactions between Red-cockaded Woodpeckers and other cavity-dependent species: Interspecific competition or cavity kleptoparasitism? <i>John J. Kappes, Jr.</i>	778
Interspecific aggression in <i>Formicarius</i> antthrushes? The view from central Amazonian Brazil. <i>Philip C. Stouffer</i>	780
Influence of weather on breeding success of Peregrine Falcons in the arctic. <i>Mark Bradley, Robin Johnstone, Gordon Court, and Tom Duncan</i>	786
Breeding-cycle patterns of sperm storage in the Pied Flycatcher (<i>Ficedula hypoleuca</i>). <i>T. R. Birkhead, J. V. Briskie, J. T. Lifjeld, and T. Slagsvold</i>	792
Carotenoid availability and plumage coloration in a wild population of Northern Cardinals. <i>Susan U. Linville and Randall Breitwisch</i>	796
A single functional testis as a unique proximate mechanism promoting sex-role reversal in coucals. <i>J. David Ligon</i>	800
REVIEWS. <i>Edited by Carl D. Marti</i>	802
REVIEWERS FOR <i>THE AUK</i> , 1997	592, 637, 687
INDEX TO VOLUME 114. <i>Compiled by Jeffrey S. Marks and Kelly A. Corll</i>	816