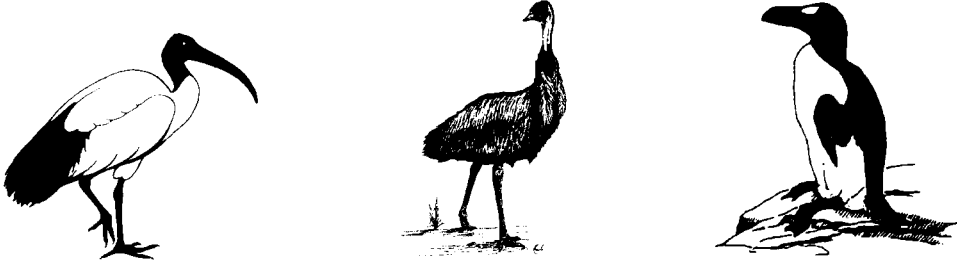


RECENT ORNITHOLOGICAL LITERATURE, No. 75

Supplement to: *The Auk*, Vol. 115, No. 2, April 1998¹
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Recent Ornithological Literature (ROL) is a serial compilation of abstracts from the worldwide scientific literature on birds. The ROL deals chiefly with periodicals, but also announces new and renamed journals and provides abstracts of special publications, reports, doctoral dissertations, and book chapters. The abstracts are prepared by scientists who voluntarily scan journals for ornithological articles, generally according to their geographic region and special scientific interests.

This issue introduces a new, more detailed classification of subjects, intended to facilitate finding references on a given topic. The subject categories and subcategories are arranged alphabetically except under Paleornithology, where they are arranged chronologically. In every category, papers that do not fit neatly into one of the subcategories are placed directly under the main heading, i.e., General. The Avian biology and life history section is for publications that deal with more than one aspect of a species (e.g., breeding habits and conservation), as in species accounts. The geographic subdivision of this section is intended to aid in finding papers on particular species.

ROL users should search in every likely category for relevant articles. The classification of abstracts is often subjective and each abstract is assigned to only one category, regardless of how many topics are covered. This list is open to revision, so comments and suggestions are invited.

Abstracts include the author's address (including e-mail) when it is given in the original publication. In cases where a secondary author has been designated to receive requests for information or reprints, that person's name is identified with an asterisk (*).

Since the ROL strives for global and comprehensive reporting, we encourage users to recommend to their regional editors periodicals that ought to be included. Authors, editors, or publishers whose articles or journals are not covered by ROL should send reprints, abstracts, or journal issues to the regional editor responsible for coverage of the geographical area in which the journal is published, or to the Coordinating Editor.

The operation needs and welcomes additional abstractors. If you would like to help, please contact your regional editor to learn which journals lack coverage and to receive instructions for preparing abstracts.

The ROL now includes abstracts of doctoral dissertations, going back to those completed since January 1, 1995. Authors who wish to be included should prepare an entry in ROL style and send it to one of the regional editors. Submission via e-mail or on diskette (WP or ASCII) with hard copy preferred. Entries should include: author's name, year of completion, title, "Ph.D. dissert.", university name and location, (author's postal and e-mail addresses), and a 1-2 sentence abstract, *not* a full-dress abstract.

JEREMY BLAKEY (Palearctic Editor, BOU), *Department of Zoology, University of Oxford, South Parks Road, Oxford OX1 3PS, UK.* <jeremy.blakey@zoology.oxford.ac.uk>

JAY M. SHEPPARD (Nearctic Editor, AOU), 3359 *Cranberry South, Laurel, Maryland 20724-2419, USA.* <jmsheppar@AOL.com>

WILLIAM K. STEELE (Australasian Editor, Birds Australia), 415 *Riversdale Road, East Hawthorn, Vic 3123, Australia.* <research.projects@raou.com.au>

PETER STETTENHEIM (Coordinating Editor, AOU), 168 *Croydon Turnpike, Plainfield, New Hampshire 03781, USA.* <peter.stettenheim@valley.net>

NEW JOURNAL

Ecotropica. Bi-annual journal of the German Society for Tropical Ecology. ISSN 0949-3026. Publishes refereed original research papers, reviews & short communications on all aspects of tropical ecology. Papers published in English (Spanish abstract optional), no restriction on length. Color plates may

be included. Subscriptions, back issues and voucher copies: G. Merz, Umweltstiftung WWF Deutschland, Hedderichstr. 110, D-60561 Frankfurt/M., Germany. Send manuscripts to the Managing Editor, K.-L. Schuchmann, Museum A. Koenig, Zoological Research Institute, Adenauerallee 160, D-53113 Bonn, Germany.—B.A.W.

AVIAN BIOLOGY & LIFE HISTORY

Africa, sub-Saharan & Madagascar

THORSTROM, R., J. HART, & R. T. WATSON. 1997. **New record, ranging behaviour, vocalization and food of the Madagascar Red Owl *Tyto soumagnei***. Ibis 139: 477–481. (Peregrine Fund, 566 West Flying Hawk Ln., Boise, ID 83709, USA.)—Species may not be restricted to primary forest.—J.V.B.

Australia, New Guinea, New Zealand

COOPER, R. 1997. **Hooded Plover *Thinornis rubricollis*: winter flocks and breeding success in Northeast Tasmania, Australia**. Stilt 30: 23–25. (9 Beach Rd., Legana, Tas. 7277, Australia.)—11 yrs observations of local movements, social organisation and breeding productivity.—I.D.E.

POWLESLAND, R. G., ET AL. 1997. **Impact of food abundance, diet and food quality on the breeding of the fruit pigeon, *Parea Hemiphaga novaeseelandiae chathamensis*, on Chatham Island, New Zealand**. Ibis 139: 353–365. (Sci. & Res. Div., Dept. Conserv., PO Box 10420, Wellington, NZ.)—Breeding effort and success lower in years when fruit is scarce.—J.V.B.

REID, N. 1997. **Behaviour, voice and breeding of the Mistletoebird *Dicaeum hirundinaceum* in arid woodland**. Vic. Nat. 114: 135–142. (Dept. Ecosystem Manage., Univ. New England, Armidale, NSW 2351, Australia.)—Includes foraging, courtship and territorial behaviour.—I.D.E.

Europe & Iceland

DUQUET, M. 1997. **[Birds of France, Pygmy Owl *Glaucidium passerinum*]**. Ornithos 4: 78–79. (Champs des Gardes, 34230 Vendémian, France.) (French.)

FOX, A.D., & C. MITCHELL. 1997. **Spring habitat use and feeding behaviour of Steller's Eider *Polysticta stelleri* in Varangerfjord, northern Norway**. Ibis 139: 542–548. (Dept. Wildl. Ecol., Natl. Environ. Res. Inst., Kalø, Grenåvej 12. DK-8410 Rønde, Denmark.)—Also observations on *Somateria mollissima* and *Somateria spectabilis*.—J.V.B.

GEC, D. 1994. **A contribution to study the ecology of the Ferruginous Duck in the area of the Kopacki Rit and the "Belje" fishponds in Baranja [Croatia]**. Troglodytes 7: 55–64. (Kneza trpimira 4a, CRO-5400 Osijek, Croatia.)—Breeding biology and conservation measures for *Aythya nyroca*, one of the rarest ducks in Europe. (Croatian, Engl. summ.)—M.D.F.U.

HAFTORN, S. 1997. **One Norwegian territory of the Marsh Tit *Parus palustris* during 35 years**. Ibis 139: 379–381. (Univ. Trondheim, The Mus., N-7004, Norway.)—Includes information on duration of pair bonds and adult survival.—J.V.B.

RAUTER, C., & H.-U. REYER. 1997. **Incubation pattern**

and foraging effort in the female Water Pipit *Anthus spinoletta*. Ibis 139: 441–446. (Zool. Inst., Univ. Zürich, Winterthurerstr. 190, CH-8057 Zürich, Switzerland.)—In relation to temperature and food availability.—J.V.B.

North America & Greenland

ARCHER, T. J. 1996. **Observations on nesting and display flights of the Vermilion Flycatcher in western Texas**. Southwest. Nat. 41: 443–444. (Dept. Zool., Univ. Oklahoma, Norman, OK 73019, USA.)—*Pyrocephalus rubinus*.

BEST, L. B., ET AL. 1996. **Life history and status classifications of birds breeding in Iowa**. J. Iowa Acad. Sci. 103: 34–45. (Dept. Anim. Ecol., Iowa State Univ., Ames, IA, 50011, USA.)—Matrix of 13 categories for 145 species.—J.J.D.

ERSKINE, A. J., ED. 1996. **Canada Goose studies in the Maritime Provinces 1950–1992**. Environ. Can. Atlantic Reg. Environ. Rep. No. 7, 179 pp. (P.O. Box 1327, Sackville, NB E0A 3C0, Can.)—21 chapters, mainly on staging and wintering of *Branta canadensis*.—A.J.E.

MELDE, P. B., & R. R. KOFORD. 1996. **Henslow's Sparrow nesting observations, habitat associations, and history in Iowa**. Iowa Bird Life 66: 117–122. (1922B N. Center St. Rd., Marshalltown, IA 50158, USA.)—*Ammodramus henslowii*; notes on habitats used and 2 nests in SE Iowa.—J.J.D.

SORDAHL, T. A. 1996. **Breeding biology of the American Avocet and Black-necked Stilt in northern Utah**. Southwest. Nat. 41: 348–354. (Dept. Biol., Luther Coll., Decorah, IA 52101-1045, USA.)—*Recurvirostra americana*, *Himantopus mexicanus*.

Northern Asia & Far East

GERASIMOV, Y. N., Y. B. ARTUKIN & N. N. GERASIMOV. 1997. **The Eastern Curlew *Numenius madagascariensis* in Kamchatka, Russia**. Stilt 30: 14–15. (Kamchatka Inst. Ecol., Far-east Br. Russia Acad. Sci., Rybakov 19a, Petropavlovsk-Kamchatsky, 683024, Russia.)—Migration, breeding, diet and conservation issues.—I.D.E.

Oceania

RIBIC, C. A., D. G. AINLEY, & L. B. SPEAR. 1997. **Seabird associations in Pacific equatorial waters**. Ibis 139: 482–487. (NBS Wisconsin Coop. Wildl. Res. Unit, Dept. Wildl. Ecol., 226 Russell Labs, Univ. Wisconsin, Madison, WI 53706-1598, USA.)—Among *Oceanodroma leucorhoa*, *Oceanodroma tethys*, *Pterodroma nigripennis*, *Pterodroma leucoptera*, *Pterodroma externa*, *Puffinus pacificus* and *Sterna fuscata*.

SPEAR, L. B., & D. G. AINLEY. 1997. **Flight behaviour of seabirds in relation to wind direction and wing morphology**. Ibis 139:221–233. (H.T. Harvey & Assoc., PO Box 1180, Alviso, CA 95002, USA.)—Study

of 98 species finds close link between flight behavior, wing morphology and patterns of distribution, colony location, dispersal and foraging behavior.—J.V.B.

WIJPKEMA, J., & T. WIJPKEMA. 1997. **Tuamotu Sandpiper**. Dutch Birding 19: 76–80. (Damsterweg 67, 9628 BS Siddeburen, Netherlands.)—Status, behavior and taxonomy of *Prosobonia cancellata*.—G.S.

Oriental (India, SE Asia, Indonesia, Philippines)

BALACHANDRAN, S. 1997. **Population, status, moult, and measurements of Great Knot *Calidris tenuirostris* wintering in South India**. Stilt 30: 3–6. (P.O. Kanyakumari District, Tamil Nadu 629701, S. India.)—Regular winter visitor to SE coast with some birds overwintering.—I.D.E.

DANIELSEN, F., ET AL. 1997. **The Storm's Stork *Ciconia stormi* in Indonesia: breeding biology, population and conservation**. Ibis 139: 67–75. (Nordic Agency Dev. & Ecol., Skindergade 23, DK-1159 Copenhagen K, Denmark.)—Study of endangered population in Sumatra.—J.V.B.

BEHAVIOR & COMMUNICATION

Agonistic & aggressive intraspecific behavior

MATEOS, C., & J. CARRANZA. 1997. **Signals in intrasexual competition between Ring-necked Pheasant males**. Anim. Behav. 53: 471–485. (Sch. Biol. Ethol., Univ. Extremadura, 10071 Cáceres, Spain.)—*Phasianus colchicus*.

SANDELL, M. I., & H. G. SMITH. 1997. **Female aggression in the European Starling during the breeding season**. Anim. Behav. 53: 13–23. (Ecol. Bldg, S-223 62 Lund, Sweden.)—Mostly directed to other female *Sturnus vulgaris*.—A.K.T.

Learning, memory & intelligence

BEDNEKOFF, P. A., ET AL. 1997. **Long-term spatial memory in four seed-caching corvid species**. Anim. Behav. 53: 325–341. (Dept. Life Sci., Indiana State Univ., Terre Haute IN 47809, USA.)—*Nucifraga columbiana*, *Gymnorhinus cyanocephalus*, *Aphelocoma coerulescens*, *Aphelocoma ultramarina*.

Locomotion: Flight, swimming & diving, walking, climbing

SPEAR, L. B., & D. G. AINLEY. 1997. **Flight speeds of seabirds in relation to wind speed and direction**. Ibis 139: 234–251. (H.T. Harvey & Assoc., PO Box 1180, Alviso, CA 95002, USA.)—Study of 1562 individuals of 98 species.—J.V.B.

Self-maintenance: Daily time budget, preening, bathing, anting, roosting, sleeping

COMBREAU, O., & F. LAUNAY. 1996. **Activity rhythms of Houbara Bustards (*Chlamydotis undulata mac-***

queenii) in relation to some abiotic factors. J. Arid Envt. 33: 463–472. (NARC, P.O. Box 45553, Abu Dhabi, United Arab Emirates.)—Captive-bred, introduced population in Saudi Arabia.—P.J.C.

NERO, R. W. 1996. **Common Grackles anting with "weed and feed" lawn chemicals**. Blue Jay 54: 31–34. (Box 24, 200 Saulteaux Cr., Winnipeg, MB R3J 3W3, Can.)—*Quiscalus quiscula*.

Sensory perception: Auditory, magnetic, olfactory, tactile & visual sensing

CHAPPELL, J., & T. GUILFORD. 1997. **The orientational salience of visual cues to the homing Pigeon**. Anim. Behav. 53: 287–296. (Dept. Zool., South Parks Rd., Oxford OX1 3PS, UK.)—*Columba livia*.

JITSUMORI, M., & T. MATSUZAWA. 1991. **Picture perception in monkeys and pigeons: Transfer of right-side-up versus upside-down discrimination of photographic objects across conceptual categories**. Primates 32: 473–482. (Dept. Psychol., Chiba Univ., 1-33 Yayoi-cho, Chiba 260, Japan.)—*Columba livia*.

MINGUEZ, E. 1997. **Olfactory nest recognition by British Storm-petrel chicks**. Anim. Behav. 53: 701–707. (Dept. Ecol. Evol., Museo Nacional de Ciencias Naturales, (CSIC), J. Gutiérrez Abascal 2, E-28006 Madrid, Spain.)—*Hydrobates pelagicus*.

Sexual behavior: Courtship & pair bonding, copulation

BLANCO, G., F. MARTÍNEZ, & J.M. TRAVERSO. 1997. **Pair bond and age distribution of breeding Griffon Vultures *Gyps fulvus* in relation to reproductive status and geographic area in Spain**. Ibis 139: 180–183. (Depto. de Biol. Anim., Univ. de Alcalá de Henares, 28871 Alcalá de Henares, Madrid, Spain.)

CÉZILLY, F., ET AL. 1997. **Age-assortative pairing in the Greater Flamingo *Phoenicopterus ruber roseus***. Ibis 139: 331–336. (Stn. Biol. de la Tour du Valat, Le Sambuc, 13200 Arles, France.)—Occurs independently of mate fidelity.—J.V.B.

DICKINSON, J. L. 1997. **Male detention affects extra-pair copulation frequency and pair behaviour in Western Bluebirds**. Anim. Behav. 53: 561–571. (Hastings Res., 38601 E. Carmel Valley Rd., Carmel Valley, CA 93924, USA.)—*Sialia mexicana*.

GOTTFRIED, J., & A. GOTTFRIED. 1996. **Copulatory behaviour in Great Horned Owl**. Blue Jay 54: 180–184. (2611 Deer Side Dr., SE, Calgary, AB T2J 6A4, Can.)—*Bubo virginianus*.

HOI, H. 1997. **Assessment of the quality of copulation partners in the monogamous Bearded Tit**. Anim. Behav. 53: 277–286. (KLIVV, Savoyenstr. 1a, A-1160 Vienna, Austria.)—Female *Panurus biarmicus* may use chases to incite competition between males.—A.K.T.

HUSAK, M. S. 1996. **Breeding season displays of the Golden-fronted Woodpecker**. Southwest. Nat. 41:

- 441–442. (Dept. Biol., Angelo State Univ., San Angelo, TX 76909, USA.)—*Melanerpes aurifrons*.
- WESTCOTT, D. A. 1997. **Lek locations and patterns of female movement and distribution in a Neotropical frugivorous bird.** *Anim. Behav.* 53: 235–247. (CSIRO, Div. Ecol., Tropical For. Res. Ctr., PO Box 780, Atherton, Qld. 4883, Australia.)—Leks associated with routes used by female *Mionectes oleagineus*.—A.K.T.
- Social & interspecific behavior: Colonial & interspecific behavior, social organization**
- DUCKWORTH, J. W. 1997. **Mobbing of a Drongo Cuckoo *Surniculus lugubris*.** *Ibis* 139:190–192. (E. Redham Farm, Pilning, Bristol BS12 3JG, UK.)—By *Macronous gularis*.
- HARRISON, J. M., & V. A. HARRISON. 1996. **Mobbing of Waxwing by Chaffinches and Blue Tits.** *Scottish Birds* 18: 250. (8 Ferryfield Dr., Connel, by Oban, Argyll PA37 1SP, UK.)—*Bombycilla garrulus*, *Fringilla coelebs*, *Parus caeruleus*.
- JACKSON, J. A., & J. P. KEY. 1992. **Lethal mobbing of a Laughing Gull by Least Terns.** *Mississippi Kite* 22: 13–15. (Dept. Biol. Sci., Mississippi State Univ., Mississippi State, MS 39762, USA.)—Flock of 6–8 *Sterna antillarum* killed adult *Larus atricilla*.—T.M.
- MALAN, G., ET AL. 1997. **The social system of the Pale Chanting Goshawk *Melierax canorus*: monogamy v. polyandry and delayed dispersal.** *Ibis* 139: 313–321. (FitzPatrick Inst., Univ. Cape Town, Rondebosch 7700, South Africa.)—Type of social system related to vegetation types.—J.V.B.
- PHILLIPS, C., & P. RICARD. 1996. **Cooper's Hawk and Great Horned Owl encounter.** *Bird Obs.* (Massachusetts) 24: 36–37. (C/O BOEM, P.O. Box 236, Arlington, MA 02174, USA.)—*Bubo virginianus* killed female *Accipiter cooperii*.—W.E.D.
- SCHULZ, M. 1997. **Falcon avoidance in the Grey-tailed Tattler *Heteroscelus brevipes*.** *Stilt* 30: 50. (Fac. Resour. Sci. Manage., Southern Cross Univ., P.O. Box 1576, Lismore, NSW 2480, Australia.)—Tattler dropped to sea and submerged.—I.D.E.
- SHEPPARD, J. M. 1996. **Nestling Kentucky Warblers and cowbird attacked by Brown-headed Cowbird.** *J. Field Ornithol.* 67: 384–386. (3359 Cranberry S., Laurel, MD 20724-2419, USA.)—*Oporornis formosus*, *Molothrus ater*.
- SMITH, R.D., & N. B. METCALFE. 1997. **Why does dominance decline with age in wintering Snow Buntings?** *Anim. Behav.* 53: 313–322. (ICAPB, Ashworth Labs, Univ. Edinburgh, Kings Bldgs., W. Mains Rd., Edinburgh EH9 3JT, UK.)—Winning fights over food may be of more immediate benefit to first-winter *Plectrophenax nivalis*.—A.K.T.
- Territoriality & home range**
- BENSON, R. H. 1995. **The effect of roadway traffic noise on territory selection by Golden-cheeked Warblers.** *Bull. Texas Ornithol. Soc.* 28: 42–51. (Ctr. Bioacoustics, Texas A&M Univ., College Station, TX 77843-3367, USA.)—*Dendroica chrysoparia* did not select territories based on roadway traffic noise within the range of noise exposure during this study.—J.B.O.
- SAVALLI, U. M. 1997. **The role of male territories in the mating system of the Yellow-shouldered Widowbird *Euplectes macrourus*.** *Ibis* 139: 374–378. (Dept. Integrative Biol., Univ. California, Berkeley, CA 94720, USA.)—Size of territories variable, but cause and significance not clear.—J.V.B.
- Visual signals**
- JUSTICE, M. J. 1996. **The role of the white wing patch in communication among Northern Mockingbirds.** Ph.D. dissert., Univ. N. Carolina-Greensboro. (Dept. Biol., Chowan Coll., Murfreesboro, NC 27855, USA. EM: MJJandTCJ@aol.com)—Evidence of male-to-female signaling, possibly as a mate quality advertisement in *Mimus polyglottos*.—M.J.J.
- Vocalizations & other sounds**
- APPLEBY, B.M., & S.M. REDPATH. 1997. **Variation in the male territorial hoot of the Tawny Owl *Strix aluco* in three English populations.** *Ibis* 139: 152–158. (Wildl. Cons. Res. Unit, Dept. Zool., Univ. Oxford, South Parks Rd., Oxford OX1 3PS, UK.)—Individuals separable on distinctiveness of hoot calls.—J.V.B.
- DABELSTEEN, T., ET AL. 1997. **The signal function of overlapping singing in male Robins.** *Anim. Behav.* 53: 249–256. (Dept. Pop. Biol., Zool. Inst., Tagensvej 16, DK-2200 Copenhagen, Denmark.)—*Eri-thacus rubecula*.
- GALLEOTTI, P., ET AL. 1997. **Song correlates with social context, testosterone and body condition in male Barn Swallows.** *Anim. Behav.* 53: 687–700. (Dept. Anim. Biol., Univ. Pavia, Piazza Botta 9, I-27100 Pavia, Italy.)—*Hirundo rustica*.
- HELLER, S., & K. HUGHES. 1997. **Song activity of Henslow's Sparrow and Grasshopper Sparrow over a 24-hour period.** *Indiana Audubon Q.* 75: 61–67. (Biol. Dept., Earlham Coll., Richmond, IN 47374-4095, USA.)—*Ammodramus savannarum* in east-central Indiana sang throughout the day with an early morning peak, while *Ammodramus henslowii* were heard in all but 1 30-min. period with highest song rates between 05:00–12:00.—J.S.C.
- HÖVEKAMP, N. R. 1996. **Intersexual vocal communication in the Red-winged Blackbird.** *J. Field Ornithol.* 67: 376–383. (Biol. Dept., Lenoir Commun. Coll., Kinston, NC 28502-0188, USA.)—*Agelaius phoeniceus* behavior appears to be affected by spatial association of the male with the female and with the territory.—R.A.I.
- LANGMORE, N. E. 1997. **Song switching in monandrous and polyandrous Dunnocks, *Prunella mod-***

- ularis*. Anim. Behav. 53: 757–766. (Dept. Zool., Downing St., Cambridge CB2 3EJ, UK.)—Song switching more likely when males competing to attract a female.—A.K.T.
- MATHEVON, N. 1997. **Individuality of contact calls in the Greater Flamingo *Phoenicopterus ruber* and the problem of background noise in a colony.** Ibis 139: 513–517. (C.N.R.S. URA 1491 NAM, Lab. des Mécanismes de la Communic., Univ. Paris XI, F-91400 Orsay, France.)—Recognition based on both spectral and temporal features of calls.—J.V.B.
- MATTHYSEN, E. 1997. **Geographic variation in the occurrence of song types in Nuthatch *Sitta europaea* populations.** Ibis 139: 102–106. (Dept. Biol. (UIA), Univ. Antwerp, B-2610 Antwerpen, Belgium.)—Little variation over 9 study plots except for one song type.—J.V.B.
- O'LOGHLEN, A. L., & M. D. BEECHER. 1997. **Sexual preferences for mate song types in female Song Sparrows.** Anim. Behav. 53: 835–841. (Dept. Psychol., Univ. Washington, Box 351525, Seattle, WA 98195-1525, USA.)—*Melospiza melodia*.
- OTTER, K. 1996. **Individual variation in the advertising call of male Northern Saw-whet Owls.** J. Field Ornithol. 67: 398–405. (Dept. Biol., Queen's Univ., Kingston, ON K7L 3N6, Can.)—*Aegolius acadicus*.
- PETER, J. M. 1997. **Skylark *Alauda arvensis* imitates parrots.** Aust. Bird Watcher 17: 156–157. (Birds Aust., 415 Riversdale Rd., E. Hawthorn, Vic. 3123, Australia.)—Mimics calls of *Cacatua roseicapilla* and *Neophema chrysotoma*.—I.D.E.
- TAYLOR, P. 1996. **Winter songs of the Pine Grosbeak.** Blue Jay 54: 82–84. (P.O. Box 597, Pinawa, MB R0E 1L0, Can.)—*Pinicola enucleator*.
- WELLING, P., K. KOIVULA, & M. ORELL. 1997. **Dawn chorus and female behaviour in the Willow Tit *Parus montanus*.** Ibis 139: 1–3. (Dept. Zool., Univ. Oulu, Linnanmaa, FIN-90570 Oulu, Finland.)—Experiment shows duration of dawn chorus directly related to female behavior.—J.V.B.

BIRDS & HUMANS

Gamebird management, hunting

- BATZER, D. P., ET AL. 1993. **Characteristics of invertebrates consumed by Mallards and prey response to wetland flooding schedules.** Wetlands 13: 41–49. (Dept. Entomol., Cornell Univ., Ithaca, NY 14853, USA.)—*Anas platyrhynchos*, *Anas crecca*.
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- DAVIS, W. E., JR. 1996. **Notes on 1995 nesting attempt of Green Heron pair at Mount Auburn Cemetery [MA].** Bird Obs. (Massachusetts) 24: 90–94. (C/O BOEM, P.O. Box 236, Arlington, MA 02174, USA.)—*Butorides virescens*.
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- SANZ, J. J. 1997. **Geographic variation in breeding parameters of the Pied Flycatcher *Ficedula hypoleuca*.** Ibis 139: 107–114. (Zool. Lab., Univ. Groningen, PO Box 14, 9750AA Haren, Netherlands.)—Examines laying date, clutch size and number of fledglings.—J.V.B.
- SIMS, R. 1991. **Wood Duck attempts to enter bluebird nest box.** Mississippi Kite 21: 35. (Jones Co. Junior Coll., Ellisville, MS 39437, USA.)—*Aix sponsa*, *Sialia sialis*.
- Breeding schedule and dates**
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- MOUGIN, J.-L., CHR. JOUANIN, & F. ROUX. 1997. **Intermittent breeding in Cory's Shearwater *Calonectris diomedea* of Selvagem Grande, North Atlantic.** Ibis 139: 40–44. (Mus. natl. d'Histoire naturelle, Lab. de Zool. (Mammiferes et Oiseaux), 55 rue Buffon, 75005 Paris, France.)—Young birds commonly take a "sabbatical" from breeding; failure to breed may last 7 years but typically averages 1.7 years.—J.V.B.
- NOSKE, R. A. 1997. **Short breeding season of Figbirds *Sphecotheres viridis* in Darwin, Northern Territory.** Corella 21: 44–47. (Sci. Fac., NT Univ., P.O. Box 41046, Casuarina, NT 0811, Australia.)—Synchronised timing may aid quasi-colonial nesting for defence.—I.D.E.
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- Cooperative or communal breeding**
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- O'CONNELL, M.J., ET AL. 1997. **Nonbreeding and nests without eggs in the Lesser Black-backed Gull *Larus fuscus*.** *Ibis* 139: 252–258. (Dept. Biol. Sci., Univ. Durham, South Rd., Durham DH1 3LE, UK.)—On average, 54% of nests do not contain eggs.—J.V.B.
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- GRAY, E. M. 1997. **Female Red-winged Blackbirds accrue material benefits from copulating with extra-pair males.** *Anim. Behav.* 53: 625–639. (Univ. Nevada, Reno, ERS/186, 1000 Valley Rd., Reno, NV 89512-0013, USA.)—Extra-pair males allowed females to feed on territory and were aggressive to a mounted predator on female's territory.—A.K.T.
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- ORELL, M., ET AL. 1997. **Low frequency extra-pair paternity in the Willow Tit *Parus montanus* as revealed by DNA fingerprinting.** *Ibis* 139: 562–566. (Dept. Biol., Univ. Oulu, FIN-90570 Oulu, Finland.)—Less than 1% of offspring.—J.V.B.
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- BYRKJEDALL, I., ET AL. 1997. **Mating systems and territory in Lapwings *Vanellus vanellus*.** *Ibis* 139: 129–137. (Mus. Zool., Inst. Zool., Univ. Bergen, Muséeplass 3, N-5007 Bergen, Norway.)—23–41% of males polygynous in Norway.—J.V.B.
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- Nesting habitat, nest site, & structure**
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- HOUSTON, C. S. 1996. **Great Horned Owl nest sites in Saskatchewan.** *Blue Jay* 54: 125-133. (863 University Dr., Saskatoon, SK S7N 0J8, Can.).—Data on 2871 *Bubo virginianus* nests, natural and man-made.—R.W.N.
- KILLAN, H. P. L. 1996. **An unusual Loggerhead Shrike nest location.** *Blue Jay* 54: 107-108. (C.W.S., 4999-98th Ave., Edmonton, AB T6B 2X3, Can.).—*Lanius ludovicianus* nested successfully in large pile of discarded fence wire.—R.W.N.
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- WACHOB, D. G. 1996. **A microclimate analysis of nest-site selection by Mountain Chickadees.** *J. Field Ornithol.* 67: 525-533. (Dept. Zool. Physiol., Univ. Wyoming, Laramie, WY 82071, USA).—*Poecile gambeli*.
- WHEELWRIGHT, N. T., ET AL. 1997. **Nest-site selection in Savannah Sparrows: using gulls as scarecrows?** *Anim. Behav.* 53: 197-208. (Dept. Biol., Bowdoin Coll., Brunswick, ME 04011, USA).—*Passerculus sandwichensis* nesting among *Larus argentatus* suffered less predation from *Corvus brachyrhynchos*.—A.K.T.
- YANES, M., J. HERRANZ, & F. SUÁREZ. 1996. **Nest microhabitat selection in larks from a European semi-arid shrub-steppe: the role of sunlight and predation.** *J. Arid Envs.* 32: 469-478. (Dept. Ecol., Fac. Ciencias, Univ. Autonoma, E-28049, Madrid, Spain).—*Calandrella rufescens*, *Galerida, theklae*, Spain.—P.J.C.
- Parental care & feeding**
- PIERCE, E. P. 1997. **Sex roles in the monogamous Purple Sandpiper *Calidris maritima* in Svalbard.** *Ibis* 139: 159-169. (Zool. Mus., Univ. Oslo, Sars gate 1, N-0562 Oslo, Norway).—Roughly equal until hatching, when female then deserts, leaving male to raise young alone.—J.V.B.
- Young, from hatching to fledging**
- BROWN, R. J. & M. N. BROWN. 1997. **Observations of breeding Musk Ducks *Biziura lobata*.** *Aust. Bird Watcher* 17: 98-100. (R.M.B. 253 Q.M.S., Manjimup, WA 6258, Australia).—Chick feeding behaviour and male displays.—I.D.E.
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- COLLAR, N. J. 1997. **The threat status of the Sidamo Lark.** *Bull. Br. Ornithol. Club* 117: 75-76. (BirdLife Int., Cambridge CB3 0NA, UK).—*Heteromirafraga sidamoensis*.
- DAVIS, S. K., D. C. DUNCAN, & M. A. SKEEL. 1996. **The Baird's Sparrow: status resolved.** *Blue Jay* 54: 185-191. (Sask. Wetland Cons. Corp., Rm. 220, 2050

- Cornwall St., Regina, SK S4P 2K5, Can.)—*Ammodramus bairdii* de-listed in 1996 as a result of studies showing it occurs more widely and in more diverse habitats than formerly believed.—R.W.N.
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- JOLIVET, C. 1997. [Little Bustard *Tetrax tetrax* still declining in France in 1996.] *Ornithos* 4: 73–77. (LPO, Corderie Royale, BP 263, 17305 Rochefort Cedex, France.)—1247–1398 pairs in 1995, 1087–1256 in 1996. Species on verge of extinction in open cultivated plains. (French, Engl. summ.)—G.O.
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Effects of man-made environmental changes: Fragmentation, Urbanization

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- WATSON, A. 1996. Human induced increases of Carrion Crows and gulls on Cairngorms plateaux. *Scottish Birds* 18: 205–213. (% Inst. Terrestrial Ecol., Hill of Brathens, Glassel, Banchory, Kincardineshire AB31 4BY, UK.)—*Corvus corone* and *Larus* spp. in Scotland.—P.J.C.
- WESTON, M. A. 1997. Disturbance of Common Sandpipers *Actitis hypoleucos* by motor-boats. *Stilt* 30: 50–51. (28 Craig Rd., Donvale, Vic. 3111, Australia.)—Not habituated to regular river traffic.—I.D.E.
- WIGLEY, T. B., & T. H. ROBERTS. 1994. A review of wildlife changes in southern bottomland hardwoods due to forest management practices. *Wetlands* 14: 41–48. (Natl. Council Paper Industry Air & Stream Improvement, Inc., Dept. Aquacult., Fish. Wildl., Clemson Univ., Clemson, SC 29634-0362, USA.)—A brief overview of the impact of forest management on birds.—W.P.J.

Habitat protection & management

- BÁLDI, A., G. CSORBA, & Z. KORSÓS. 1995. Setting priorities for the conservation of terrestrial vertebrates in Hungary. *Stud. Nat. No. 6.*, 59 pp. (Hun-
- garian Mus. Nat. Hist., Baross u. 13, Budapest, H-1088 Hungary.)—The Millsap et al. system (Wildl. Monogr. 111, 1990) was modified to better fit Hungarian conditions. All amphibian, reptilian, mammalian and avian (269) taxa have been scored and ranked. (Hungarian, Engl. summ.)—M.D.F.U.

University Park, PA 16802, USA.)—Hosts nesting within small forest openings may be particularly vulnerable to *Molothrus ater*; management should be landscape-level with maintenance of large areas of contiguous forest.—R.A.I.

BATZER, D. P., F. DE SZALAY, & V. H. RESH. 1997. **Opportunistic response of a benthic midge (Diptera: Chironomidae) to management of California seasonal wetlands.** Environ. Entomol. 26: 215–222. (Dept Entomol., Univ. Georgia, Athens, GA 30602, USA.)—Dabbling ducks feed on midges and their predatory insects in managed habitat.—R.G.T.

JOHNSON, D. H., ET AL. 1994. **Influence of waterfowl management on nongame birds: the North Dakota experience.** Trans. N. Am. Wildl. Nat. Resour. Conf. 59: 293–302. (USGS/BRD, North. Prairie Wildl. Res. Ctr., 8711-37th St. SE, Jamestown, ND 58401-7317, USA.)

MUZINIC, J. 1994. **[A preliminary national inventory of wetlands in Croatia.]** Troglodytes 7: 5–13. (Zavod za ornitologiju HAZU, Ilirski trg 9, Zagreb, Croatia.)—30 sites covering 116,423 ha are inventoried and mapped. 13 sites are inland, 10 on the Adriatic coast, and 7 on islands. 14 are important bird areas, 6 under national protection, and 4 are Ramsar sites. (Croatian, Engl. summ.)—M.D.F.U.

REYNOLDS, R. E., ET AL. 1994. **Conservation reserve program: benefit for grassland birds of the Northern Plains.** Trans. N. Am. Wildl. Nat. Resour. Conf. 59: 328–336. (USFWS, 1500 Capitol Ave., Bismark, ND 58501, USA.)—Grass cover planted as a result of the 1985 and 1990 U.S. Farm Bills has substantially benefitted some birds (e.g., *Calamospiza melanocorys*, *Ammodramus savannarum*) that nest in North Dakota and South Dakota.—W.P.J.

Species recovery measures

CANNON, J. R. 1996. **Whooping Crane recovery: A case study in public and private cooperation in the conservation of endangered species.** Conserv. Biol. 10: 813–821. (Grad. Progr. Sustainable Dev. & Conserv. Biol., Univ. Maryland, 1201 Zool.-Psychol. Build., College Park, MD 20742, USA.)—*Grus americana*.

MATHEVET, R. 1997. **[Status of Purple Gallinule *Porphyrio porphyrio* in Southern France.]** Ornithos 4: 28–34. (Marais du Vigueirat, 13104 Mas Thibert, France.)—Dramatic increase from beginning of 1990's. (French, Engl. summ.)—G.O.

SEDDON, P. J., & R. F. MALONEY. 1996. **Reintroduction of Houbara Bustards into central Saudi Arabia: a summary of results between 1991 and 1996.** Phoenix 13: 14–16. (Nat. Wildl. Res. Ctr., P.O. Box 1086, Taif, Saudi Arabia.)—*Chlamydotis undulata macqueenii*.

TAKEKAWA, J. Y., ET AL. 1994. **Restoration of Lesser Snow Geese to East Asia: a North Pacific Rim Conservation Project.** Trans. N. Am. Wildl. Nat.

Resour. Conf. 59: 132–145. (USFWS, 6924 Tremont Rd., Dixon, CA 95620, USA.)—*Chen caerulescens caerulescens*.

WOLF, C. M., ET AL. 1996. **Avian and mammalian translocations: Update and reanalysis of 1987 survey data.** Conserv. Biol. 10: 1142–1154. (Dept. Zool., 430 Lincoln Dr., Univ. Wisconsin, Madison, WI 53706, USA.)—Evaluate the success of translocation programs for various species.—G.M.C.

DISEASES, PARASITES, & PATHOLOGY

Diseases & disease transmission

HOLLMÉN, T., ET AL. 1996. **Description of an epizootic in eider ducklings from the Gulf of Finland.** Suomen Riista 42: 31–39. (Fac. Vet. Med., Helsinki Univ., P.O.Box 17, FIN-00014, Helsinki, Finland.)—*Somateria mollissima*. (Finnish, Engl. summ.)

Parasites: External, Internal

DAROLOVÁ, A., H. HOI, & B. SCHLEICHER. 1997. **The effect of ectoparasite nest load on the breeding biology of the Penduline Tit *Remiz pendulinus*.** Ibis 139: 115–120. (Inst. Zool., Slovak Acad. Sci., Dúbravská cesta 9, SK-842 06 Bratislava, Slovakia.)—Mite load important in mate choice but no adverse effect on reproductive success.—J.V.B.

SANTOS ALVES, M. A. 1997. **Effects of ectoparasites on the Sand Martin *Riparia riparia* nestlings.** Ibis 139: 494–496. (Dept. Biol. & Molecular Sci., Univ. Stirling, Stirling FK9 4LA, Scotland, UK.)—Experimental removal of parasites increased nestling mass.—J.V.B.

TAROF, S. A., B. J. STUTCHBURY, & G. F. BENNETT. 1997. **Low infection prevalence of blood parasites in Hooded Warblers.** J. Field Ornithol. 68: 75–78. (Dept. Biol., York Univ., North York, ON M3J 1P3, Can.)—Mean intensity of 4 parasite types of 8.4/100 fields for combined age- and sex-classes for 112 *Wilsonia citrina*.

DISTRIBUTION & AVIFAUNAS

Africa, sub-Saharan & Madagascar

BREWSTER, C. A. 1996. **Summary of category B records.** Babbler 31: 32–41. (Botswana Bird Club, P. O. Box 71, Gaborone, Botswana.)—Lists occurrences of near-rarities.—N.J.S.

BREWSTER, C. A. 1996. **Influx of Common Quails *Coturnix coturnix* to Sefhane area of eastern Botswana in April and May 1995.** Babbler 31: 22. (Priv. Bag 0024, Bobonong, Botswana.)—After heavy local rain Feb–May 1995.—N.J.S.

DOWSETT, R.J., & A. MOORE. 1997. **Swamp warblers *Acrocephalus gracilirostris* and *Acrocephalus rufescens* at Lake Chad, Nigeria.** Bull. Br. Ornithol. Club 117: 48–51. (194 rue de Bois de Breux, B-4020 Jupille, Liège, Belgium.)—Describes present status.—L.G.G.

- HAZEVOET, C. J. 1997. **On a record of the Wattled Crane *Bugeranus carunculatus* from Guinea-Bissau.** Bull. Br. Ornithol. Club 117: 56–59. (Univ. Amsterdam, P.O. Box 94766, 1090 GT Amsterdam, Netherlands.)—26 March 1948 by Major Ferreira.—L.G.G.
- RANDALL, R. 1996. **Redheaded *Quelea quelea erythroptus* along the Kwando.** Babbler 31: 23. (Priv. Bag K14, Kasane, Botswana.)
- TYLER, S. J., & J. TYLER. 1996. **Finfoots *Podica senegalensis* on the Marico River.** Babbler 31: 29–30. (Dept. Anim. Health & Production, Priv. Bag 0032, Gaborone, Botswana.)
- Australia, New Guinea, New Zealand**
- BIRD, P. R. 1997. **Mammals and birds of the Mount Napier State Park.** Vic. Nat. 114: 52–66. (Priv. Bag 105, Hamilton, Vic. 3300, Australia.)—113 species over 20 years from sw Victoria reserve.—I.D.E.
- BORELLA, M. C. & M. BORELLA. 1997. **Square-tailed Kite breeding near Ararat, Victoria.** Aust. Bird Watcher 17: 157–158. (RMB 1510, Ararat, Vic. 3377, Australia.)—Supports conjecture that *Lophoictinia isura* is a spring breeding migrant in western Vic.—I.D.E.
- BROTHERS, N. P., D. PEMBERTON & I. J. SKIRA. 1997. **Seabird Islands No. 234: Rum Island, Furneaux Group, Tasmania.** Corella 21: 92–93. (Pks. Wildl. Serv., PO Box 44A, Hobart, Tas. 7001, Australia.)—Describes island, seabirds and factors affecting their status.—I.D.E.
- BROTHERS, N. P., D. PEMBERTON & I. J. SKIRA. 1997. **Seabird Islands No. 235: Beagle Island, Furneaux Group, Tasmania.** Corella 21: 94–96. (Pks. Wildl. Serv., PO Box 44A, Hobart, Tas. 7001, Australia.)—Describes island, seabirds and factors affecting their status.—I.D.E.
- COLLINS, P. & R. JESSOP. 1997. **Little Terns *Sterna albifrons* in the West Kimberley division of Western Australia.** Stilt 30: 26–31. (P.O. Box 97, Cowes, Vic. 3922, Australia.)—Important roost sites and first confirmed breeding record for region.—I.D.E.
- COLLINS, P. & R. JESSOP. 1997. **The occurrence of three species of shearwater at Broome, North-western Australia.** Aust. Bird Watcher 17: 94–96. (P.O. Box 97, Cowes, Vic. 3922, Australia.)—Hand specimen confirmation of *Calonectris leucomelas*, *Puffinus pacificus* and *P. huttoni*.—I.D.E.
- CRAWFORD, D. N. 1997. **Wader census from Darwin, Northern Territory, Australia, 1970 to 1972.** Stilt 30: 32–34. (1 Arabana St., Aranda, ACT 2614, Australia.)—Weekly counts of beach and saline swamp.—I.D.E.
- DOBBS, K. A. L. ET AL. 1997. **Birds of Milman Island.** Corella 21: 37–43. (Inst. Mar. Life Sci., Texas A&M Univ., 4700 Ave. U. Bldg. 303, Galveston, TX 77551 USA.)—Significant rest stop for migratory and Australian-breeding non-seabird species.—I.D.E.
- FITRI, L. L. & H. A. FORD. 1997. **Status, habitat and social organisation of the Hooded Robin *Melanodryas cucullata* in the New England Region of New South Wales.** Aust. Bird Watcher 17: 142–155. (Lab. Psychol. Ethol., Univ. Paris, X 200, Ave. République, 92001 Nanterre Cedex, France.)—Includes discussion of apparent population decline.—I.D.E.
- GOSPER, C. R. & J. BAKER. 1997. **Notes on the birds of Nadgee, particularly the Striated Fieldwren *Calamanthus fuliginosus*.** Aust. Bird Watcher 17: 111–125. (Dept. Biol. Sci., Univ. Wollongong, Wollongong, NSW 2522, Australia.)—Total census plus density estimates, habitat and behaviour observations for threatened species.—I.D.E.
- HARRISON, F. & M. LEWIS. 1997. **Swamp Harriers breeding in North Queensland.** Aust. Bird Watcher 17: 102–103. (4/6 Albert St., Cranbrook, Qld. 4814, Australia.)—Extension of *Circus approximans* breeding range.—I.D.E.
- HARRISON, F. 1997. **The status of Marsh Sandpipers *Tringa stagnatalis* in North Queensland, Australia.** Stilt 30: 51. (4/6 Albert St., Cranbrook, Qld. 4814, Australia.)—Reports large flock at one significant site.—I.D.E.
- HOBcraft, D. & D. J. JAMES. 1997. **Records of the Grass Owl from southern New South Wales.** Aust. Bird Watcher 17: 91–93. (Taronga Zoo, P.O. Box 20, Mosman, NSW 2088, Australia.)—Only 3 acceptable records of *Tyto capensis* from southern NSW.—I.D.E.
- HOBcROFT, D. 1997. **Sooty Owl *Tyto tenebricosa* at Eungella National Park and Kroombit Tops, Queensland.** Aust. Bird Watcher 17: 103–104. (Taronga Zoo, P.O. Box 20, Mosman, NSW 2088, Australia.)—Northward extension of known range.—I.D.E.
- HOUSTON, W. & A. MITCHELL. 1997. **A fifteen month survey of wader and tern numbers from Corio Bay, Central Queensland, Australia.** Stilt 30: 16–22. (7 Hopkins St., Rockhampton, Qld. 4701, Australia.)—Species composition, abundance and roosting site preferences.—I.D.E.
- LANE, S. G. 1997. **Short-tailed Shearwater *Puffinus tenuirostris* on Muttonbird Island, Coffs Harbour, New South Wales.** Corella 21: 98. (66 Fairview Rd., Moonee via Coffs Harbour, NSW 2450, Australia.)—Unsuccessful breeding attempts on most northerly island where this species recorded nesting.—I.D.E.
- MINTON, C. 1997. **Breeding season census of Pied Oystercatchers in Corner Inlet, Victoria.** Stilt 30: 35–38. (165 Dalgetty Rd., Beaumaris, Vic. 3193, Australia.)—Possibly largest breeding concentration and most important location for non-breeding birds in Australia.—I.D.E.
- O'NEILL, P. & R. CHANNELS. 1997. **Seabird Islands No. 233: Creek Rock, Great Barrier Reef, Queensland.** Corella 21: 90–91. (Qld. Dept. Environ., PO Box 3130, Rockhampton Shopping Fair, Rockhampton

- ton, Qld. 4701, Australia). —Describes island, seabirds and factors affecting their status.—I.D.E.
- SINGOR, M. J. C. 1997. **Waders of the Creery Wetlands and adjacent mudflats, Western Australia.** *Stilt* 30: 39–48. (15 Jacqueline Dr., Thornlie, WA 6108, Australia).—Annotated list of 27 species covering habitat, numbers and seasonality.—I.D.E.
- Europe & Iceland**
- ARGELOO, M., & A. W. J. MEIJER. 1997. [**Balearic Woodchat Shrike near Voorhout in June 1993.**] *Dutch Birding* 19: 65–67. (Wageweg 52, 1811 MK Alkmaar, Netherlands).—*Lanius senator badius*, second record for Netherlands. (Dutch, Engl. summ.)—G.S.
- AYMI, R., & X. JIMÉNEZ. 1997. **Red-eyed Vireo at Taragona, Spain, in October 1995.** *Dutch Birding* 19: 16–17. (Mus. Zool., Apartat 593, Parc de la Ciutadella, 08080 Barcelona, Spain).—*Vireo olivaceus olivaceus* found dead, first record for Spain.—G.S.
- BIRCHAM, P.M.M., & W.J. JORDAN. 1997. **A consideration of some of the changes in distribution of "common birds" as revealed by *The New Atlas of Breeding Birds in Britain and Ireland*.** *Ibis* 139:183–186. (The Physiol. Lab., Downing St., Cambridge CB2 3EG, UK).—Differences in methodologies suggest caution in comparing new atlas with previous edition.—J.V.B.
- BOHNING-GAESE, K., & H. G. BAUER. 1996. **Changes in species abundance, distribution, and diversity in a central European bird community.** *Conserv. Biol.* 10: 175–187. (Abt. f. Verhaltensphysiol., Beim Kupferhammer 8, D 72070 Tubingen, Germany.)
- CREWE, M. 1996. **The BTO/JNCC/RSPB breeding bird survey.** *Suffolk Birds* 45: 7–15. (29A Quilter Rd., Felixstowe, Suffolk, IP11 7JJ, UK).—Analyses results for Suffolk—N.J.S.
- DIJKHUIZEN, J., & A.W.J. MEIJER. 1997. [**White-throated Robin in Berkheide in June 1995.**] *Dutch Birding* 19: 14–16. (Bestevaerweg 37, 2225 PB Katwijk, Netherlands).—*Irania gutturalis*, second record for Netherlands. (Dutch, Engl. summ.)—G.S.
- DONALD, P. F., ET AL. 1996. **Numbers, distribution and habitat associations of Corn Buntings on the Outer Hebrides and Tiree [Scotland] in 1995.** *Scottish Birds* 18: 170–181. (BTO, The Nunnery, Thetford, Norfolk IP24 2PU, UK).—*Miliaria calandra*.
- DULAU, S. 1997. [**Wintering of Richard's Pipit *Anthus richardi* in south-western France.**] *Ornithos* 4: 90–91. (12 rue des Glycines, 37270 Athée-sur-Cher, France).—In 1995–96 and 1996–97. (French, Engl. summ.)—G.O.
- DUQUET, M. 1997. [**Influx of Slavonian Grebes *Podiceps auritus* in France in February and March 1996.**] *Ornithos* 4: 41–43. (rue des Champs des Gardes, 34230 Vendémian, France).—About 600 birds outside usual winter distribution. (French, Engl. summ.)—G.O.
- EBELS, E. B. 1997. [**Balearic Woodchat Shrike at Knardijk in June 1993.**] *Dutch Birding* 19: 64–65. (Lessinglaan 11–2, 3533 AN Utrecht, Netherlands).—*Lanius senator badius*, first record for Netherlands. (Dutch, Engl. summ.)—G.S.
- EDITORIAL COMMITTEE, SUFFOLK BIRDS. 1996. **The 1995 Suffolk bird report.** *Suffolk Birds* 45: 28–158. (ed. Crewe, M. D., 29A Quilter Rd., Felixstowe, IP11 7JJ, UK).—Annotated checklist—N.J.S.
- ERICSON, P. G. P. 1997. **Swedish records of the eastern Palearctic Hoopoe subspecies *Upupa epops saturata*.** *Bull. Br. Ornithol. Club* 117: 19–26. (P.O. Box 50007, S-104 05, Stockholm, Sweden).—Uses modern optical techniques to quantify colors to reduce subjectivity.—L.G.G.
- FORRESTER, R. W. 1996. **Amendments to the Scottish List.** *Scottish Birds* 18: 129–131. (31 Argyle Terr., Rothesay, Isle of Bute PA20 0BD, UK).—Scottish Birds Records Comm. report.—P.J.C.
- GILL, J. A., A. R. WATKINSON, & W. J. SUTHERLAND. 1997. **Causes of the redistribution of Pink-footed Geese *Anser brachyrhynchus* in Britain.** *Ibis* 139: 497–503. (Sch. Biol. Sci., Univ. East Anglia, Norwich NR4 7TJ, UK).—Perhaps due to changing availability of sugar beet litter in agricultural fields.
- GORDON, P. R., & D. CLUGSTON. 1996. **Records of species recorded in Scotland on 5 or fewer occasions.** *Scottish Birds* 18: 132–143. (Secretary, SBRC, 31 Argyle Terr., Rothesay, Isle of Bute PA20 0BD, UK).—The acceptable records of rare Scottish species.—P.J.C.
- GREENWOOD, J.D., R.J. FULLER, & D.W. GIBBONS. 1997. **Assessing changes in distribution from atlas data: reply to Bircham and Jordan.** *Ibis* 139:186–189. (British Trust for Ornithol., The Nunnery, Thetford, Norfolk IP24 2PU, UK).—Reply to *Ibis* 139:183–186.—J.V.B.
- KERBIRIOU, C., I. LE VIOL, & B. CADIYOU. 1997. [**A Leach's Petrel *Oceanodroma leucorhoa* found in a Storm Petrel *Hydobates pelagicus* colony in Brittany, France.**] *Ornithos* 4: 88–90. (Ctr. Ornithol. 29242, île d'Ouessant, France).—Found in a gull pellet. (French, Engl. summ.)—G.O.
- KJELLÉN, N. 1997. **Skuas on the Eurasian tundra; relative occurrence of species, ages and colour phases.** *Ibis* 139:282–288. (Dept. Anim. Ecol., Univ. Lund, Ecol. Bldg., S-223 62 Lund, Sweden).—52% *Stercorarius pomarinus*, 38% *Stercorarius longicaudus*, and 10% *Stercorarius parasiticus*.—J.V.B.
- KLINGE, F., F. BUISSINK, & E. B. EBELS*. 1997. [**Cretzschmar's Bunting on Ameland in May 1994.**] *Dutch Birding* 19: 8–11. (Lessinglaan 11–2, 3533 AN Utrecht, Netherlands).—*Emberiza caesia*, second record for Netherlands. (Dutch, Engl. summ.)—G.S.
- MCGHIE, H. A., & S. A. MORAN. 1996. **Probable first breeding record of Brambling in Britain represented in a museum collection.** *Scottish Birds* 18:

- 248–249. (8 Queen St., Mytholmroyd, W. Yorks HX7 5HN, UK.)—*Fringilla montifringilla*.
- MICHELAT, D. 1997. [The breeding of Short-eared Owl *Asio flammeus* in France in 1993.] *Ornithos* 4: 35–40. (Grande Rue, 25650 Montbenoit, France.)—97–134 pairs mapped during common vole *Microtus arvalis* plague. (French, Engl. summ.)—G.O.
- MIKUSKA, J., & T. MIKUSKA. 1994. Results of mid-winter waterfowl counts in Croatia during 1989. *Troglodytes* 7: 15–53. (Gunduliceva 19-a, 54000 Osijek, Croatia.)—Data for 32 species; occurrence of 22 species is shown on maps within the European UTM grid system. (Croatian, Engl. summ.)—M.D.F.U.
- ODIN, N. 1996. An analysis of the occurrence of Wren, Dunnock and Reed Bunting at Landguard Point, Suffolk. *Suffolk Birds* 45: 16–21. (Landguard Bird Obs., Viewpoint Rd., Felixstowe, Suffolk, IP11 8TW, UK.)—*Troglodytes troglodytes*, *Prunella modularis*, and *Emberiza schoeniclus*.
- OLIOSO, G. 1997. [White-headed Long-tailed Tits *Aegithalos caudatus* in France.] *Ornithos* 4:46–48. (Le Mail, 26230 Grignan, France.)—Race *europaeus*. (French, Engl. summ.)
- ORSINI, P. 1997. [Wintering of Wryneck *Jynx torquilla* in continental France.] *Ornithos* 4: 21–27. (Mus. d'Hist. Nat., 113 bd Maréchal Leclerc, 83000 Toulon, France.)—Departments bordering Mediterranean Sea account for 90% of records. (French, Engl. summ.)—G.O.
- PENNIE, I. D. 1996. Cormorants on Handa [Scotland]. *Scottish Birds* 18: 191. (Badcall, Scourie, Sutherland, UK.)—*Phalacrocorax carbo*, history.—P.J.C.
- PICOZZI, N., D. C. CATT, & R. P. CUMMINS. 1996. Breeding waders in the Cairngorms Straths ESA in 1995. *Scottish Birds* 18: 197–204. (Inst. Terrestrial Ecol., Hill of Brathens, Glassel, Banchory, Kincardineshire AB31 4BY, UK.)—Environmentally Sensitive Area in Scotland.—P.J.C.
- PURGER, J. J. 1987. Materials on ornithofauna of the Kucaj mountains (East Serbia). *Bull. Nat. Hist. Mus. Belgrade B.* 42: 119–127. (Dept. Ecol. & Zoogeogr., Janus Pannonius Univ., Pécs, Ifjúság u. 6, H-7601 Hungary.) (Croatian, Engl. summ.)
- PURGER, J. J. 1989. Present range of Black Redstart, *Phoenicurus ochrurus gibraltariensis* (Gmelin, 1789), in Vojvodina [Yugoslavia] and surrounding areas. *Bull. Nat. Hist. Mus. Belgrade B.* 43/44: 175–183. (Dept. Ecol. & Zoogeogr., Janus Pannonius Univ., Pécs, Ifjúság u. 6, H-7601 Hungary.) (Serbo-Croatian, Engl. summ.)
- PURGER, J. J. 1990. On [the] state of Rock Bunting, *Emberiza cia* L., 1766, in Vojvodina [Yugoslavia]. *Bull. Nat. Hist. Mus. Belgrade B.* 45: 169–170. (Dept. Ecol. & Zoogeogr., Janus Pannonius Univ., Pécs, Ifjúság u. 6, H-7601 Hungary.)—Transient in spring and fall in N. Yugoslavia. (Croatian, Engl. summ.)—M.D.F.U.
- SAMWALD, O., & G. LUKAC. 1994. New data on the occurrence and breeding of the Little Tern in Austria and Croatia. *Troglodytes* 7: 65–68. (Mühlbreiten Str. 61, A-8280 Fürstenfeld, Austria.)—*Sterna albifrons*. (Croatian, Engl. summ.)
- SANGSTER, G., ET AL. 1997. Dutch avifaunal list: taxonomic changes in 1977–97. *Dutch Birding* 19: 21–28. (Nieuwe Rijn 27, 2312 JD Leiden, Netherlands.)—Includes specific recognition of *Puffinus mauretanicus*, *Phoenicopterus roseus*, *Cygnus bewickii*, *Anser serrirostris*, *Branta hrota*, *Branta nigricans*, *Melanitta americana*, *Melanitta deglandi*, *Chlamydotis macqueenii*, *Acrocephalus tangorum*, *Phylloscopus orientalis*, *Phylloscopus brehmii*, *Lanius pallidirostris*, *Corvus cornix* and *Dendroica auduboni*. —G.S.
- VAN DE LAAR, H. & E.B. EBELS*. 1997. [Hawk Owl at Brunssum in April 1995.] *Dutch Birding* 19: 11–14. (Lessinglaan 11–2, 3533 AN Utrecht, Netherlands.)—*Surnia ulula ulula*, second record for Netherlands. (Dutch, Engl. summ.)—G.S.
- YÉSOU, P. 1997. [Mediterranean Gull *Larus melanocephalus* breeding in France, 1965–1996.] *Ornithos* 4: 54–62. (O.N.C., 53 rue Russeil, 44000 Nantes, France.)—First nesting in 1965; 682–793 pairs in 1996. (French, Engl. summ.)—G.O.

Mexico, Central America, & Caribbean

- MELLINK, E., E. PALACIOS, & S. GONZÁLEZ. 1997. Non-breeding waterbirds of the delta of the Río Colorado, México. *J. Field Ornithol.* 68: 113–123. (Ctr. Invest. Cient. Educ. Superior Ensenada, B.C. Apdo. Post. 2732, Ensenada, Baja CA, México.)—Largest numbers during winter, over 100,000; shorebirds dominate with *Calidris mauri* comprising 70%.—R.A.I.

North Africa & Middle East

- AL SAGHIER, O., & R. F. PORTER. 1996. Aden wetlands – Yemen. *Phoenix* 13: 4. (BirdLife Int., Wellbrook Ct., Girton Rd., Cambridge CB3 0NA, UK.)—One of the most important areas for waterfowl in southern Arabia.—P.J.C.
- ERIKSEN, J. 1996. Pratincole – a new breeding bird in Oman. *Oman Bird News* 19: 3. (P.O. Box 36, Sultan Qaboos Univ. 123, Oman.)—*Glareola pratincola*.
- JAMES, D. 1996. Bonelli's Eagle breeds in the Riyadh suburbs. *Phoenix* 13: 24. (Y Gat, Llechryd, Cardigan, Ceredigion SA43 2NR, UK.)—*Hieraetus fasciatus* near human habitation, Saudi Arabia.—P.J.C.
- JENNINGS, M. C. 1996. Sharawah – a town in the Empty Quarter. *Phoenix* 13: 3–4. (1 Warners Farm, Warners Drove, Somersham, Cambs. PE17 3HW, UK.)—Limited avian colonisation of relatively new, isolated town, Saudi Arabia.—P.J.C.
- JENNINGS, M. C. 1996. The Bald Ibis in Arabia. *Phoenix* 13: 12. (1 Warners Farm, Warners Drove, Somersham, Cambs. PE17 3HW, UK.)—Speculation on possible breeding of *Geronticus eremita*.—P.J.C.
- NATION, B. 1996. Skylarks displaying in Qatar. *Phoe-*

- nix 13: 2. (96 Home St., Winnipeg R3G IW9, Can.)—*Alauda arvensis*, potential breeder.—P.J.C.
- NEWTON, S. F., & A. H. AL SUHAIBANI. 1996. **Survey of summer breeding seabirds in the Saudi Arabian Red Sea.** Phoenix 13: 5–6. (Glenbeg, Kindles-town Hill, Delgany, Co. Wicklow, Ireland.)
- YAHYA, H. S. A., & M. SALAMAH. 1996. **The Asir Magpie: results of recent field surveys.** Phoenix 13: 13–14. (NCWCD, P.O. Box 61681, Riyadh, Saudi Arabia.)—*Pica pica asirensis*, Saudi Arabian endemic.—P.J.C.
- North America & Greenland**
- ATTWELL, J., & P. SHERRINGTON. 1996. **A Brambling at Claresholm, Alberta during winter 1993–1994.** Blue Jay 54: 85–88. (Box 2015, Claresholm, AB T0L 0T0, Can.)—*Fringilla montifringilla*; 2nd Provincial record.—R.W.N.
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- DANILOV, P.J., ET AL. 1996. **Status of game animal populations in Karelia and Finland according to winter track count data.** *Finn. Game Res.* 49: 18–25. (Zool. Lab. Karelian Res. Ctr., Russian Acad. Sci., Pushkinskaja 11, Petrozavodsk, Russia.)—Includes discussion of 1990–1995 census results for 4 tetraonid species.—M.D.F.U.
- DECEUNINCK, B., N. MAILLET, & BIROE FRANCE. 1997. **[Ducks and Coots mid-winter counts—1996 in France.]** *Ornithos* 4: 2–9. (LPO, Corderie Royale, BP 263, 17305 Rochefort Cedex, France.)—866,233 birds; Camargue (120,264 birds) and Cours du Rhin (38,900) two most important sites. (French, Engl. summ.)—G.O.
- DORE, C. P., P. M. ELLIS, & E. M. STUART. 1996. **Numbers of Whimbrel breeding in Shetland in 1989–1994 and previously.** *Scottish Birds* 18: 193–196. (RSPB, E. Ho., Sumburgh Head Lighthouse, Virkie, Shetland, UK.)—*Numenius phaeopus*.
- DUNCAN, R. A. 1996. **House Sparrow (*Passer domesticus*) trends in coastal Northwest Florida-Alabama based on Christmas Bird Count data.** *Alabama Birdlife* 42(2): 1–2. (614 Fairpoint Dr., Gulf Breeze, FL 32561, USA.)—3 of 4 CBCs studied showed declines from 1980–1984 to 1990–1994 in birds per party-hr.—J.B.O.
- DUNCAN, R. A. 1997. **Herring Gull (*Larus argentatus*) trends in coastal northwest Florida-Alabama based on Christmas Bird Count data.** *Alabama Birdlife* 43(1): 38–40. (614 Fairpoint Dr., Gulf Breeze, FL 32561, USA.)—Data from 5 CBCs show declines in birds per party-hr. of effort (but no statistical inference) during the periods 1980–1984 and 1990–1994.—J.B.O.
- ENDERSON, J. H., ET AL. 1995. **Population changes in North American peregrines.** *Trans. N. Am. Wildl. Nat. Resour. Conf.* 60: 142–161. (Dept. Biol., Colorado Coll., Colorado Springs, CO 80903, USA.)—*Falco peregrinus*.
- HAUKOS, D. A., & K. E. CHURCH. 1996. **Evaluation of time-series analysis to forecast population indices of Greater Prairie-chickens in Kansas.** *Bird Popul.* 3: 1–13. (Dept. Range & Wildl. Manage, Texas Tech. Univ., Lubbock TX, 79409-2125, USA.)
- HUSSELL, D. J. T. 1996. **The influx of Black-capped**

- Chickadees at Long Point, Ontario in the spring of 1962: a 35-year perspective on an unusual event.** J. Field Ornithol. 67: 614–622. (Environ. Can., 49 Camelot Dr., Nepean, ON K1A 0H3, Can.)—*Poecile atricapillus*.
- KRUEGER, O. 1997. **Population density and intra- and interspecific competition of the African Fish Eagle *Haliaeetus vocifer* in Kyambura Game Reserve, southwest Uganda.** Ibis 139: 19–24. (Univ. Bielefeld, Neue Str. 25, 33824 Wertger, Germany.)—Immature birds probably forced to occupy marginal habitat by competition with adults.—J.V.B.
- LIGON, J. D., & P. B. STACEY. 1996. **Land use, lag times and the detection of demographic change: The case of the Acorn Woodpecker.** Conserv. Biol. 10: 840–846. (Dept. Biol., Univ. New Mexico, Albuquerque, NM 87131, USA.)—*Melanerpes formicivorus*.
- MURRAY, S., & S. WANLESS. 1996. **A census of the St. Kilda [Scotland] gannetry in May 1994.** Scottish Birds 18: 152–158. (Craigie Dhu, Cardney, Dunkeld, Perthshire PH8 0EY, UK.)—*Morus bassanus*.
- O'BRIEN, M. 1996. **The numbers of breeding waders in lowland Scotland.** Scottish Birds 18: 231–241. (RSPB, 17 Regent Terr., Edinburgh EH7 5BH, UK.).
- PETERJOHN, B. G., J. R. SAUER, & W. A. LINK. 1996. **The 1994 and 1995 summary of the North American Breeding Bird Survey.** Bird Popul. 3: 48–66. (USGS/BRD, Patuxent Wildl. Res. Ctr., Laurel, MD 20708, USA.)
- SAUER, J. R., G. W. PENDLETON, & B. G. PETERJOHN. 1996. **Evaluating causes of population change in North American insectivorous songbirds.** Conserv. Biol. 10: 465–478. (Natl. Biol. Serv., Patuxent Environ. Sci. Ctr., Laurel, MD 20708, USA.)
- SHARP, B. E. 1996. **Avian population trends in the Pacific Northwest.** Bird Popul. 3: 26–45. (Ecol. Perspectives, P.O. Box 111, Fossil, OR 97830, USA.)
- SMITH, L. H. 1997. **Building a viable Lyrebird population.** Aust. Bird Watcher 17: 71–80. (36 Duke St., Kew, Vic. 3101, Australia.)—Calculates breeding success rates necessary for population growth and discusses affecting factors.—I.D.E.
- TELFAIR, R. C., II. 1995. **Neotropic Cormorant (*Phalacrocorax brasilianus*) population trends and dynamics in Texas.** Bull. Texas Ornithol. Soc. 28: 7–16. (Texas Parks & Wildl. Dept., Manage. & Res. Stn., 11942 FM 848, Tyler, TX 75707, USA.)—After drastic population declines in the 1960's, populations have steadily increased. Banding data yield additional information.—J.B.O.
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- Predation & predators**
- BUNIN, J. S., & I. G. JAMIESON. 1996. **Responses to a model predator of New Zealand's endangered Ta-**
- kahe and its closest relative, the Pukeko.** Conserv. Biol. 10: 1463–1466. (Zool. Dept., Univ. Otago, P.O. Box 56, Dunedin, New Zealand.)—*Porphyrio mantelli*, *Porphyrio porphyrio*.
- BURES, S. 1997. **High Common Vole *Microtus arvalis* predation on ground-nesting bird eggs and nestlings.** Ibis 139: 173–174. (Dept. Zool., Palacky Univ., Svobody 26, 771 46 Olomouc, Czech Republic.)—May be important source of nest predation.—J.V.B.
- CRESSWELL, W. 1997. **Nest predation: the relative effects of nest characteristics, clutch size and parental behaviour.** Anim. Behav. 53: 93–103. (IBLS, Graham Kerr Bdg., Glasgow Univ., Glasgow G12 8QQ, UK.)—For *Turdus merula*, predation risk was not related to physical characteristics of site for natural, active nests, but was related for artificial nests without blackbirds present.—A.K.T.
- DAVIES, J. G., & G. COWLISHAW. 1996. **Baboon carnivory and raptor interspecific competition in the Namib Desert [Namibia].** J. Arid Envt. 34: 247–249. (Cresswell Associates, The Court Ho., The High St., Bisley GL6 7AA, UK.)—Conflict between baboon and *Milvus migrans* over klipspringer calf remains.—P.J.C.
- DICKSON, R. C. 1996. **Nestling predation by Merlins.** Scottish Birds 18: 251–252. (Lismore, New Luce, Newton Stewart, Wigtownshire DG8 0AJ, UK.)—*Falco columbarius*.
- GLAZEBROOK, J. 1996. **Egg theft by Carrion Crows.** Suffolk Birds 45: 159. (61 Woodlands, Chelmondiston, Suffolk, IP9 1DU, UK.)—*Corvus corone*.
- GÖTMARK, F., & J. OLSSON. 1997. **Artificial colour mutation: do red-painted Great Tits experience increased or decreased predation?** Anim. Behav. 53: 83–91. (Dept. Zool., Univ. Göteborg, Medicinaregatan 18, S-413 90 Göteborg, Sweden.)—*Accipiter nisus* pairs took a higher proportion of red-painted than control *Parus major*, but using hawk pairs as sample units, red tits did not suffer higher predation risk.—A.K.T.
- HUSAK, M. S. 1995. **Evidence of possible egg predation by Golden-fronted Woodpeckers.** Bull. Texas Ornithol. Soc. 28: 55–56. (Dept. Biol., Angelo State Univ., San Angelo, TX 76909, USA.)—*Melanerpes aurifrons* were twice remotely photographed at an artificial quail nest.—J.B.O.
- JOHNSON, W. P., & F. C. ROHWER. 1996. **Disturbance of wintering Green-winged Teal and Mallards by raptors.** Southwest. Nat. 41: 331–334. (Texas Pk. & Wildl. Dept., 10 Parks & Wildl. Dr., Port Arthur, TX 77640, USA.)—*Anas crecca*, *Anas platyrhynchos*.
- LONG, D. J., & L. GILBERT. 1997. **California sea lion predation on chicks of the Common Murre.** J. Field Ornithol. 68: 152–154. (Dept. Ichthyol., California Acad. Sci., Golden Gate Pk., San Francisco, CA 94118, USA.)—*Uria aalge*, *Zalophus californianus*.
- LUDLOW, A., & D. LUDLOW. 1996. **Great Gray Owl-gray squirrel encounter.** Blue Jay 54: 225. (77 San-

- dra Bay, Winnipeg, MB R3T 0J9, Can.)—*Strix nebulosa* in city backyard killed a *Sciurus carolinensis* and fed on it for 2 days.—R.W.N.
- MACEDONIA, J. M., & P. L. YOUNT. 1991. **Auditory assessment of avian predator threat in semi-captive ringtailed lemurs (*Lemur catta*)**. *Primates* 32: 169–182. (Dept. Zool., Univ. California, Davis, CA 95616-8755, USA.)—Reactions to calls of *Buteo jamaicensis*, *Polyboroides radiatus* and *Hylocichla ustulata*.—T.K.
- MARJAKANGAS, A. 1996. **Nest losses in a boreal Black Grouse population**. *Suomen Riista* 42: 25–30. (Dept. Biol., Univ. Oulu, FIN-90570 Oulu, Finland.)—Of nearly 25% of chick losses of *Lyrurus tetrix* most succumbed to predation, presumably mainly by *Vulpes vulpes*. (Finnish, Engl. summ.)—M.D.F.U.
- PERRY, D., J. R. SPENCE, & J. A. VOLNEY. 1997. **Responses of natural enemies to experimentally increased populations of the forest tent caterpillar, *Malacosoma disstria***. *Ecol. Entomol.* 22: 97–108. (Dept. Entomol., 243 Nat. Sci., Michigan State Univ., East Lansing, MI 48824-1115, USA. EM: parrydyl@pilot.msu.edu)—Reared forest tent caterpillars in upland and lowland aspen forests in Alberta, Can. simulating various population densities. *Empidonax minimus*, *Pheucticus ludovicianus*, *Dendroica petechia* and *Icterus galbula* preyed on late larvae and were the chief source of pupal mortality at all prey densities.—D.E.W.D.
- RÖNKÄ, A., & K. KOIVULA. 1997. **Effect of shore width on the predation rate of artificial wader nests**. *Ibis* 139: 405–407. (Dept. Biol., Univ. Oulu, PO Box 333, FIN-90571 Oulu, Finland.)—No difference.—J.V.B.
- SAENZ, D., & R. R. SCHAEFER. 1995. **Opportunistic predation by a Broad-winged Hawk on a southern flying squirrel**. *Bull. Texas Ornithol. Soc.* 28: 60–61. (Wildl. Habitat & Silviculture Lab., South. Res. Stn., USDA For. Serv., Nacogdoches, TX 75962, USA.)—*Buteo platypterus* preyed on a *Glaucomys volans*.—J.B.O.
- YAHNER, R. H., & C. G. MAHAN. 1996. **Depredation of artificial ground nests in a managed, forested landscape**. *Conserv. Biol.* 10: 285–288. (Sch. For. Resour., Pennsylvania State Univ., Univ. Park, PA 16802, USA.)
- YANES, M., & F. SUAREZ. 1996. **Incidental nest predation and lark conservation in an Iberian semi-arid shrubsteppe**. *Conserv. Biol.* 10: 881–887. (Dept. Interuniversitario de Ecol., Univ. Autonoma, E-28049, Madrid, Spain.)—Outlines incidental predation of *Galerida theklae* and *Calandrella rufescens* nests.—G.M.C.
- YORIO, P., & F. QUINTANA. 1997. **Predation by Kelp Gulls *Larus dominicanus* at a mixed-species colony of Royal Terns *Sterna maxima* and Cayenne Terns *Sterna eurygnatha* in Patagonia**. *Ibis* 139: 536–541. (Centro Nacional Patagónico (CONICET), Blvd. Brown s/n, (9120) Puerto Madryn, Chubut, Argentina.)—Gulls responsible for 99% of all observed predation.—J.V.B.
- ZANETTE, L. 1997. **Predation of an Eastern Yellow Robin nest by a small bird, the Brown-headed Honeyeater**. *Aust. Bird Watcher* 17: 158–159. (Dept. Ecosystem Manage., Univ. New England, Armidale, NSW 2351, Australia).—Opportunistic egg predation by *Melithreptus brevirostris*.—I.D.E.

Reproductive effort & productivity

- DESANTE, D. E., K. M. BURTON, & D. R. O'GRADY. 1996. **The monitoring avian productivity & survivorship (MAPS) program fourth & fifth annual report (1993 & 1994)**. *Bird Popul.* 3: 67–120. (Inst. Bird Popul., P.O. Box 1346, Pt. Reyes Stn., CA 94956, USA.)
- GUYN, K. L., & R. G. CLARK. 1997. **Cover characteristics and success of natural and artificial duck nests**. *J. Field Ornithol.* 68: 33–41. (Dept. Biol., Univ. Saskatchewan, Saskatoon, SK S7N 5E2, Can.)—No correlation found between artificial and natural nest success; despite efforts to place nests in 'typical' locations, natural nests had greater lateral cover and taller vegetation.—R.A.I.
- HAKKARAINEN, H., V. KOIVUNEN, & E. KORPIKÄMI. 1997. **Reproductive success and parental effort of Tengmalm's Owls: Effects of spatial and temporal variation in habitat quality**. *Écoscience* 4: 35–42. (Lab. Ecol. Zool., Dept. Biol., Univ. Turku, FIN-20014 Turku, Finland.)—Effects of temporal variations in the relative importance of main and alternative food sources of *Aegolius funereus*.—C.M.
- HARTLEY, M. J. 1994. **Passerine abundance and productivity indices in grasslands managed for waterfowl nesting cover**. *Trans. N. Am. Wildl. Nat. Resour. Conf.* 59: 322–327. (Dept. Wildl. Ecol., 220 Nutting Hall, Univ. Maine, Orono, ME 04469-5755, USA.)—Passerine abundance during the nesting season was compared across 3 cover types: dense nesting cover, native grasslands, and wheat.—W.P.J.
- HERRON, J. 1996. **Red-tailed Hawk nesting study on Interstate 79 [WV]**. *Redstart* 63: 116–117. (511 Ohio Ave., Fairmont, WV 26554, USA.)—22 nest sites in a distance of 140 mi produced 10 young *Buteo jamaicensis* from 7 occupied sites.—G.A.H.
- HOLLIMAN, D. C. 1997. **Eastern Bluebird (*Sialia sialis*) studies during the construction of a golfing community in North Shelby County, Alabama**. *Alabama Birdlife* 43(3): 7–21. (Biol. Dept., Birmingham-Southern Col., Aradelpia Rd., Birmingham, AL 35254, USA.)—8-yr. study of production from 50 nest boxes per yr. was worthwhile on a professional golf course with proper planning; provides management recommendations.—J.B.O.
- RODGERS, J.A., JR., & S.T. SCHWIKERT. 1997. **Breeding success and chronology of Wood Storks *Mycteria***

- americana* in northern and central Florida, U.S.A. Ibis 139: 76–91. (Florida Game & Fresh Water Fish Comm., 4005 South Main St., Gainesville, FL 32601, USA.)—Includes information on clutch size, hatching success and nestling survival.—J.V.B.
- SAFFORD, R. J. 1997. **Nesting success of the Mauritius Fody *Foudia rubra* in relation to its use of exotic trees as nest sites.** Ibis 139: 555–559. (Mauritian Wildl. Fund, Tamarin, Mauritius/Durrell Inst. Conserv. & Ecol., Univ. Canterbury, Kent CT2 7NZ, UK.)—Success highest in exotic trees.—J.V.B.
- SIKAMÄKI, P., M. HOVI, & O. RÄTTI. 1997. **Low return rate due to clutch enlargements in the Pied Flycatcher (*Ficedula hypoleuca*).** Écoscience 4: 24–28. (Dept. Biol. Environ. Sci., Konnevesi Res. Stn., Univ. Jyväskylä, P.O. Box 35, FIN-40351 Jyväskylä, Finland.)—Effects of artificial increase in reproductive effort.—C.M.
- WHITCOMB, S. D., A. F. O'CONNELL, JR., & F. A. SERVELLO. 1996. **Productivity of the Spruce Grouse at the southeastern limit of its range.** J. Field Ornithol. 67: 422–427. (Virginia Dept. Game Inland Fish., 2387 Tumbling Creek Rd., Saltville, VA 24370, USA.)—Report no. chicks/female < 1 for *Falci pennis canadensis canadensis* in mid-coastal Maine.—R.A.I.
- Site fidelity & dispersal**
- BÁLDI, A., & T. CSÖRGÖ. 1994. **Roosting site fidelity of Great Tits (*Parus major*) during winter.** Acta Zool. Hungarica 40: 359–367. (Ecol. Res. Group, Hungarian Nat. Hist. Mus. Baross u 13, H-1088 Budapest, Hungary.)
- RIMMER, C. C., & C. H. DARMSTADT. 1996. **Non-breeding site fidelity in Northern Shrikes.** J. Field Ornithol. 67: 360–366. (Vermont Inst. Nat. Sci., RR 2, Box 532, Woodstock, VT 05091, USA.)—*Lanius excubitor*.
- SILVERIN, B. 1997. **The stress response and autumn dispersal behaviour in Willow Tits.** Anim. Behav. 53: 451–459. (Dept. Zool., Göteborg Univ., Medicinaregatan 18, S-413 90 Göteborg, Sweden.)—*Parus montanus* juveniles treated with corticosterone dispersed from experimental plots.—A.K.T.
- Species composition & competition; biodiversity**
- BROWN, D. J., W. A. HUBERT, & S. H. ANDERSON. 1996. **Beaver ponds create wetland habitat for birds in mountains of southeastern Wyoming.** Wetlands 16: 127–133. (Wyoming Coop. Fish Wildl. Res. Unit, Univ. Wyoming, Box 3155, University Station, Laramie, WY 82071, USA.)—Bird species richness is correlated with water surface area, shallow water, and shoreline length. *Anas crecca*, *Anas platyrhynchos*, *Agelaius phoeniceus*, *Euphagus cyanocephalus*, *Actitis hypoleucos*, and *Gallinago gallinago* are the most common species associated with beaver ponds.—W.P.J.
- BUSTNES, J. O., & O. J. LØNNE. 1997. **Habitat partitioning among sympatric wintering Common Eiders *Somateria mollissima* and King Eiders *Somateria spectabilis*.** Ibis 139: 549–554. (Found. Nat. Res. & Cult. Heritage Res., Dept. Arctic Ecol., Storgata 25, N-9005 Tromsø, Norway.)—Water depth most important factor separating 2 species.—J.V.B.
- DELPHEY, P. J., & J. J. DINSMORE. 1993. **Breeding bird communities of recently restored and natural prairie potholes.** Wetlands 13: 200–206. (USFWS, 620 S. Walker St., Bloomington, IN 47403, USA.)—Species richness was higher in natural wetlands, but pair counts of waterfowl and waterfowl species richness did not differ between natural and created wetlands. *Geothlypis trichas*, *Agelaius phoeniceus*, *Cistothorus palustris*, and *Melospiza georgiana* were more abundant in natural than in restored wetlands.—W.P.J.
- GEHLBACH, F. R. 1995. **Biogeographic controls of avifaunal richness in isolated coniferous forests of the U.S.–Mexican Borderlands.** Pp. 135–150. In Storm over a mountain island: conservation biology and the Mt. Graham affair. C. A. Istock & R. S. Hoffman, Eds. Univ. Arizona Press, Tucson.
- GROVER, A. M., & G. A. BALDASSARRE. 1995. **Bird species richness within beaver ponds in south-central New York.** Wetlands 15: 108–118. (Environ. For. Biol., SUNY Coll. Environ. Sci. For., Syracuse, NY 13210, USA.)—On average, more bird species use active than inactive beaver ponds.—W.P.J.
- KELLER, C. M. E., C. S. ROBBINS, & J. S. HATFIELD. 1993. **Avian communities in riparian forests of different widths in Maryland and Delaware.** Wetlands 13: 137–144. (USFWS, Patuxent Wildl. Res. Ctr., Laurel, MD 20708, USA.)—Neotropical migrant species were proportionately more numerous in wider forests; *Empidonax virescens*, *Protonotaria citrea*, *Vireo griseus*, *Vireo olivaceus*, *Piranga olivacea*, *Sayornis phoebe*, *Oporornis formosus*, *Seiurus motacilla*, *Hyllocichla mustelina*, and *Contopus virens* were more likely to occur in wider forests.—W.P.J.
- KENNEDY, E. D., & D. W. WHITE. 1996. **Interference competition from House Wrens as a factor in the decline of Bewick's Wrens.** Conserv. Biol. 10: 281–284. (Div. Biol., Kansas State Univ., Manhattan, KS 66506, USA.)—*Troglodytes aedon*, *Thryomanes bewickii*.
- WEISS, R. A. 1997. **Species diversity for Indiana birds—1985 to 1996.** Indiana Audubon Q. 75: 72–76. (Chipper Woods Bird Obs., 10329 N. New Jersey St., Indianapolis, IN 46280, USA.)—Shannon-Wiener indices were relatively stable over the period, lowest for Christmas Bird Counts and similar for Big May Day Bird Counts and Summer Bird Counts.—J.S.C.
- WINKER, K. 1996. **The crumbling infrastructure of biodiversity: the avian example.** Conserv. Biol. 10: 703–707. (Nat. Mus. Nat. History, MSC MRC 534, Smithsonian Inst., Washington, DC 20560, USA.)

Winter habitat and habits

- DAVIS, W. E., JR. 1996. **Notes on the response of small birds to the presence of a Cooper's Hawk at winter bird feeders.** *Bird Obs.* (Massachusetts) 24: 304–306. (C/O BOEM, P.O. Box 236, Arlington, MA 02174, USA.)—*Accipiter cooperii*.
- DICKSON, R. C. 1996. **The hunting behaviour of Merlins in winter in Galloway [Scotland].** *Scottish Birds* 18: 165–169. (Lismore, New Luce, Newton Stewart, Wigtownshire DG8 0AJ, UK.)—*Falco columbarius*.
- DICKSON, R. C. 1996. **Hunting times of Hen Harriers in winter.** *Scottish Birds* 18: 182–183. (Lismore, New Luce, Newton Stewart, Wigtownshire DG8 0AJ, UK.)—*Circus cyaneus*.
- JOHNSON, G. D., ET AL. 1996. **Assessing river habitat selection by waterfowl wintering in the South Platte River, Colorado.** *Wetlands* 16: 542–547. (West. EcoSyst. Technol., Inc., 2003 Central Ave., Cheyenne, WY 82001, USA.)—Dabbling (*Anas* spp.) and diving (*Aythya* spp.) ducks select different habitat types.—W.P.J.
- MCCAW, J. H., III, P. J. ZWANK, & R. L. STEINER. 1996. **Abundance, distribution, and behavior of Common Mergansers wintering on a reservoir in southern New Mexico.** *J. Field Ornithol.* 67: 669–679. (New Mexico Coop. Fish Wildl. Res. Unit, New Mexico State Univ., Las Cruces, NM 88003, USA.)—*Mergus merganser*.
- MILLER, J. B. 1996. **Red-breasted Mergansers in an urban winter habitat.** *J. Field Ornithol.* 67: 477–483. (Massachusetts Gen. Hospital, 149 13th St., Charlestown, MA 02129, USA.)—*Mergus serrator*.
- REES, E. C., J. S. KIRBY, & A. GILBURN. 1997. **Site selection by swans wintering in Britain and Ireland: the importance of habitat and geographic location.** *Ibis* 139:337–352. (Wildfowl & Wetlands Trust, Slimbridge, Gloucester GL2 7BT, UK.)
- WILSON, H. 1996. **The impact of bird feeding on wintering birds.** *Bird Obs.* (Massachusetts) 24: 17–22. (C/O BOEM, P.O. Box 236, Arlington, MA 02174, USA.)—Reviews previous published work and shows that feeding can influence habitat selection in winter.—W.E.D.

EVOLUTION & SYSTEMATICS

Classification & phylogeny

- LIVEZEY, B.C. 1997. **A phylogenetic analysis of modern sheldgeese and shelducks (Anatidae, Tadorini).** *Ibis* 139: 51–66. (Sect. Birds, Carnegie Mus. Nat. Hist., 4400 Forbes Ave., Pittsburgh, PA 15213-4080, USA.)—Results agree with most recent classifications of this group.—J.V.B.
- MIKHAILOV, K.E. 1997. **Bird taxonomy based on egg-shell structure.** *Bull. Br. Ornithol. Club* 117: 149–150. (Paleontological Inst. Russian Acad. Sci., Profsojuznaja St. 123, Moscow 117647, Russia.)

Intraspecific variation

- CLANCEY, P.A. 1997. **Variation in the Cape Penduline Tit *Anthoscopus minutus* of the southern Afrotropics.** *Bull. Br. Ornithol. Club* 117: 52–55. (Suite 19, Caister Lodge, 264 Musgrave Rd., Berea, Durban 4001, South Africa.)—The well marked races are *damarensis*, *gigi* and nominate.—L.G.G.
- FOGGO, M. N., R. A. HITCHMOUGH, & C. H. DAUGHERTY. 1997. **Systematic and conservation implications of geographic variation in pipits (*Anthus Motacillidae*) in New Zealand and some offshore islands.** *Ibis* 139: 366–373. (Dept. Sci., Central Inst. Technol., PO Box 40-470, Upper Hutt, NZ.)—Offshore populations may be sufficiently distinct to warrant specific recognition.—J.V.B.

New taxa

- DICKERMAN, R. W. 1997. **A substitute name for the Bioko race of *Pycnonotus virens*.** *Bull. Br. Ornithol. Club* 117: 75. (Am. Mus. Nat. Hist., New York, NY 10024, USA.)—*Andropadus virens amadoni*.
- FRITH, C.B., & D.W. FRITH. 1997. **The taxonomic status of the bird of paradise *Paradigalla carunculata intermedia* (Paradisaeidae) with notes on the other *Paradigalla* taxa.** *Bull. Br. Ornithol. Club* 117: 38–48. (P.O. Box 581, Malanda, Nth. Qld. 4885, Australia.)
- GOODMAN, S. M., A. F. A. HAWKINS, & C. A. DOMERGUE. 1997. **A new species of vanga (*Vangidae*, *Calicalicus*) from southwestern Madagascar.** *Bull. Br. Ornithol. Club* 117: 5–10. (Field Mus. Nat. Hist., Chicago, IL 60605, USA.)—*Calicalicus rufocarpalis*.
- GREENWOOD, J. J. D. 1997. **Introduction: the diversity of taxonomies.** *Bull. Br. Ornithol. Club* 117: 85–96. (BTO, The Nunnery, Thetford, Norfolk, IP24 2PU, UK.)

Species concepts

- SNOW, D.W. 1997. **Should the biological be superseded by the phylogenetic species concept?** *Bull. Br. Ornithol. Club* 117: 110–121. (The Old Forge, Wingrave, Aylesbury, Bucks. HP22 4PD, UK.)
- ZINK, R.M. 1997. **Species concepts.** *Bull. Br. Ornithol. Club* 117: 97–109. (J. F. Bell Mus., 100 Ecol. Bldg. Univ. Minnesota, St. Paul, MN 55108, USA.)

Taxonomy & nomenclature

- BARBAGLI, F., F. BARBAGLI, & C. VIOLANI. 1997. **Scopoli, Linnaeus and the Wallcreeper *Tichodroma muraria*.** *Bull. Br. Ornithol. Club* 117: 145–147. (Via Margaritone 20, 52100 Arezzo, Italy.)
- COLLAR, N.J. 1997. **Taxonomy and conservation: chicken and egg.** *Bull. Br. Ornithol. Club* 117: 122–136. (BirdLife Int., Wellbrook Crt., Girton Rd., Cambridge CB3 0NA, UK.)
- MEEES, G. F. 1997. **On the identity of *Heterornis senex***

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FOOD HABITS & NUTRITION

Diet & nutrition

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Foraging habits, food selection, & food storage

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- WHITAKER, J. J. 1996. **Carolina Chickadees feeding on white-tailed deer carcass.** *Redstart* 63: 112. (3817 Windom Pl. NW, Washington, DC 20016, USA.)—*Poecile carolinensis*.

Kleptoparasitism

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GENETICS & HYBRIDIZATION

Hybrids & progeny

- CREWE, M. D. 1996. **Hybrid House × Tree Sparrow at Timworth.** *Suffolk Birds* 45: 159–160. (29A Quilter Rd., Felixstowe, IP11 7JJ, UK.)—*Passer domesticus* × *Passer montanus*.
- DE RUWE, F., & G. DE SMET. 1997. **[Hybrid Roseate Tern × Common Tern breeding with Common Tern at Zeebrugge in 1995.]** *Dutch Birding* 19: 60–64. (Jagerstr. 8, 8200 Brugge, Belgium.)—*Sterna dougallii* × *Sterna hirundo* raised young with *Sterna hirundo* in Belgium. (Dutch, Engl. summ.)—G.S.
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IDENTIFICATION

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SAFFORD, R. J., J. S. ASH, & J. W. DUCKWORTH. 1997. **Reply to Forero and Tella.** *Ibis* 139: 410–411. (Roy. Holloway Inst. Environ. Res., Huntersdale, Callow Hill, Virginia Water, Surrey GU25 4LN, UK.)—Reply to *Ibis* 139: 407–409.—J.V.B.

Species identification

- DUQUET, M. 1997. [Field identification of Rough-legged Buzzard *Buteo lagopus*.] *Ornithos* 4: 10–20. (rue des Champs des Gardes, 34230 Vendémian, France.)—Special reference to immature birds with mixed adult and juvenile features. (French, Engl. summ.)—G.O.
- JIGUET, F. 1997. [Identification of Wilson's Petrel *Oceanites oceanicus*.] *Ornithos* 4: 63–72. (3 rue de l'Ermitage, 86280 Saint-Benoit, France.)—Comparison with *Hydrobates pelagicus*, *Oceanodroma castro* and *Oceanodroma leucorhoa*. (French.)—G.O.
- PARKIN, D. 1997. **Molecular probes for identifications of raptors.** *Bull. Br. Ornithol. Club* 117: 147–148. (Dept. Genetics, Sch. Med., Queen's Med. Ctr., Nottingham NG7 2UH, UK.)
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Sex or age class identification

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- BLANCO, G., J. L. TELLA, & I. TORRE. 1996. **Age and sex determination of monomorphic non-breeding Choughs: a long-term study.** *J. Field Ornithol.* 67: 428–433. (Depto. Biol. Anim., Univ. Alcalá Henares, Madrid, Spain.)—3 age classes in *Pyrhocorax pyrrhocorax* distinguished by rectrix shape, intensity of plumage color and iridescent brightness, and contrast between old and freshly molted flight feathers; tarsus length and bill width used to determine sex.—R.A.I.
- BOSCH, M. 1996. **Sexual size dimorphism and determination of sex in Yellow-legged Gulls.** *J. Field Ornithol.* 67: 534–541. (Depto. Ecol., Univ. Barcelona, Avda. Diagonal 645, E-08028 Barcelona, Spain.)—Head length gives 99.4% accuracy in *Larus cachinnans*.—R.A.I.
- BRADBURY, R. B., & R. GRIFFITHS. 1997. **A rapid method for sexing birds with highly repeated W-chromosome-linked DNA markers.** *Ibis* 139: 401–402. (EGL, Dept. Zool., South Parks Rd., Oxford OX1 3PS, UK.)

EVRRARD, J. O. 1996. **Accuracy of aging duck broods in the field.** *J. Field Ornithol.* 67: 453–455. (Dept. Nat. Resour., Box 367, Grantsburg, WI 54840, USA.)—Found no difference between known ages and ages estimated using a brood-classification system in 27 pooled *Anas platyrhynchos* and 78 pooled *Anas discors* broods.—R.A.I.

ORTEGA, C. P., ET AL. 1996. **Improved methods for aging second-year and after-second-year male Brown-headed Cowbirds.** *J. Field Ornithol.* 67: 542–548. (Dept. Biol., Fort Lewis Coll., Durango, CO 81301, USA.)—Totally dark underwing coverts are not reliable for distinguishing ASY from SY *Molothrus ater*; light gray equals SY; however, if dark, examine the primaries for presence of brown.—R.A.I.

RODRIGUEZ, E. F., B. H. PUGESEK, & K. L. DIEM. 1996. **A sexing technique for California Gulls breeding at Bamforth Lake, Wyoming.** *J. Field Ornithol.* 67: 519–524. (South. Sci. Ctr., 700 Cajundome Blvd., Lafayette, LA 70506, USA.)—Determined accurately in *Larus californicus* by using head-bill length, bill depth, and tarsus length.—R.A.I.

ZAVALAGA, C. B., & R. PAREDES. 1997. **Sex determination of adult Humboldt Penguins using morphometric characters.** *J. Field Ornithol.* 68: 102–112. (Apdo. Post. 180606, Lima 18, Perú.)—Classify 95% of wild *Spheniscus humboldti* using head width and bill length.—R.A.I.

MIGRATION & NAVIGATION

- BRIDGMAN, H. A., M. MADDOCK & D. GEERING. 1997. **Cattle Egret migration, satellite telemetry and weather in south-eastern Australia.** *Corella* 21: 69–76. (Dept. Geogr., Univ. Newcastle, NSW 2308, Australia.)—Observations of *Ardeola ibis coromandus* consistent with previous ground findings, but more precise in time and space.—I.D.E.
- RITTIER, R. 1996. **A record hawk count at the Allegheny Front Migration Observatory.** *Redstart* 63: 54. (7714 Holmes Run Dr., Falls Church, VA 22042, USA.)—6985 raptors of 10 species counted 19 Sep 1995 on Allegheny Front, Mountain, Grant Co., WV.—G.A.H.
- SMITH, J. L., & J. F. TRIPLETT. 1996. **A phenomenal waterbird flight on the Kanawha River [WV].** *Redstart* 63: 46. (P.O. Drawer 617, Grantsville, WV 26147, USA.)—An estimated 7500 waterbirds of 22 species seen, 24 Nov 1995.—G.A.H.
- TIXIER, P. 1995. [Contribution to biogeography in the southern hemisphere of some tropical liverworts.] *Mém. Soc. Biogéogr.* ser. 3: 95–110. (Cryptogamie (M.N.H.N.), 12 r. Buffon, F-75005 Paris, France.)—Discusses the peculiar disjunct distribution in the southern hemisphere of some epiphyllous liverworts. The neotropical distribution pattern of 1 genus might be explained by avian sporal transport by Nearctic migrants, such as *Dolichonyx oryzivorus*

and *Pluvialis dominica*. (French, Engl. summ.)—M.D.F.U.

Migratory behavior

- PIERSMA, T., A. HEDENSTRÖM, & J. H. BRUGGEMANN. 1997. **Climb and flight speeds of shorebirds embarking on an intercontinental flight: do they achieve the predicted optimal behaviour?** *Ibis* 139: 299–304. (Dept. Anim. Ecol., Univ. Lund, Ecol. Bldg., S-223 62 Lund, Sweden.)—Climb rates and airspeed in general accordance with current theory of flight mechanics.—J.V.B.
- SLACK, H. E., III. 1991. **Avian mortality at buildings along the Mississippi Gulf Coast during fall migration.** *Mississippi Kite* 21: 2–5. (2219 Switzer Rd., Gulfport, MS 39507, USA.)—Records of 25 species of dead, injured or stunned birds, presumably owing to collision with buildings.—T.M.
- SIPAAR, R. 1997. **Flight strategies of migrating raptors: a comparative study of interspecific variation in flight characteristics.** *Ibis* 139: 523–535. (Swiss Ornithol. Inst., 6204 Sempach, Switzerland.)—Comparison of flight strategies in over a dozen species of European raptors.—J.V.B.

Migratory dates, timing & routes

- GARNETT, S. T. & S. SHEPHARD. 1997. **Cape York Peninsula, Australia, as a stopover site for Latham's Snipe *Gallinago hardwickii*.** *Stilt* 30: 54–55. (P.O. Box 117, Parndana, SA 5220, Australia.)—Wet season locations before northward migration.—I.D.E.
- HIGUCHI, H., ET AL. 1996. **Satellite tracking of White-naped Crane migration and the importance of the Korean demilitarized zone.** *Conserv. Biol.* 10: 806–812. (Lab. Wildl. Biol., Sch. Agric. Life Sci., Univ. Tokyo, Yayoi 1-1-1, Bunkyo-ku, Tokyo 113, Japan.)—*Grus vipio*.
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- MCRAE, A. 1996. **White Ibis flies East River Mountain hawkwatch site in southern West Virginia.** *Redstart* 63: 111. (126 Fincastle Ln., Bluefield, WV 24701, USA.)—*Eudocimus albus*.
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Navigation & homing

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MORPHOLOGY & PHYSIOLOGY

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Integument: Feathers, molts & plumages, plumage morphs, other integumentary structures, skin

COLLINS, P. & R. JESSOP. 1997. **Leucistic Star Finch near Wyndham, Western Australia.** Aust. Bird Watcher 17: 106. (P.O. Box 97, Cowes, Vic. 3922, Australia).—Adult male *Neochmia ruficauda* amongst normally coloured flock.—I.D.E.

CRAIG, A. J. F. K., & P. E. HULLEY. 1996. **Supplementary head molt in Cape White-eyes: a consequence of nectar feeding?** J. Field Ornithol. 67: 358–359. (Dept. Zool. Entomol., Rhodes Univ., Grahamstown, 6140, South Africa).—Fouled plumage may be replaced locally in *Zosterops pallidus* et al.—R.A.I.

HOHMAN, W. L. 1996. **Prevalence of double wing molt in free-living Ruddy Ducks.** Southwest. Nat. 41: 195–198. (USGS/BRD, 700 Cajundome Blvd., Lafayette, LA 70506-3152, USA).—*Oxyura jamaicensis*.

VAN DER VLIET, R., & R. DE LANGE. 1997. **'Basalt Wheatear.'** Dutch Birding 19: 18–19. (Oosterdorpsstraat 89, 3871 AC Hoevelaken, Netherlands).—Black morph of *Oenanthe lugens lugens*.—G.S.

General morphology: Body size & mass, regional morphology, sexual dimorphism, topography

BOYD, H., & J. BENY. 1996. **Changes since 1890 in the size of Pink-footed Geese wintering in Britain.** Scottish Birds 18: 144–151. (1032 Pinewood Cres., Ottawa, ON., K2B 5Y5, Can.).—*Anser brachyrhynchus*.

LILLIENDAHL, K. 1997. **The effect of predator presence on body mass in captive Greenfinches.** Anim. Behav. 53: 75–81. (Dept. Zool., Stockholm Univ., S-106 91 Stockholm, Sweden).—Captive *Carduelis chloris* lost weight after seeing predator model.—A.K.T.

NERO, R. W. 1996. **A one-winged Savannah Sparrow.** Blue Jay 54: 135. (Box 24, 200 Saulteaux Cr., Winnipeg, MB R3J 3W3, Can.).—Dog captured apparently healthy, fledgling *Passerculus sandwichensis* that had an abnormally short wing.—R.W.N.

SMITH, T. B. 1997. **Adaptive significance of the megabilled form in the polymorphic Black-bellied Seedcracker *Pyrenestes ostrinus*.** Ibis 139: 382–387. (Dept. Biol., San Francisco State Univ., San Francisco, CA 94132, USA).—Large body size may be related to risk of avian predation in open habitats.—J.V.B.

Physiology & biochemistry: Body composition, day length effects, energy metabolism & body temperature, lipid physiology, protein physiology

BEINTEMA, A. J., T. BAARSUL, & J. P. DE KRIJGER. 1997. **Calcium deficiency in Black Terns *Chlidonias niger* nesting on acid bogs.** Ibis 139: 396–397. (Inst. For. & Nat. Res., PO Box 23, 6700 AA Wageningen, Netherlands).—Led to early death of nestlings.—J.V.B.

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Reproductive system & physiology

ARNOLD, T. W., J. E. THOMPSON, & C. D. ANKNEY. 1997. **Using post-ovulatory follicles to determine laying histories of American Coots: implications for nutrient-reserve studies.** J. Field Ornithol. 68: 19–25. (Dept. Wildl., Humboldt State Univ., Arcata, CA 95521, USA).—*Fulica americana*.

Sensory & nervous system

LEFEBVRE, L., ET AL. 1997. **Feeding innovations and forebrain size in birds.** Anim. Behav. 53: 549–560. (Dept. Biol., McGill Univ., Montreal, PQ H3A 1B1, Can.).—Frequencies of innovations related to two measures of forebrain size.—A.K.T.

PALEORNITHOLOGY

Paleocene, Eocene & Oligocene fossils

BAIRD, R. F. & P. VICKERS-RICH*. 1997. ***Eutreptodactylus itaboraiensis* gen. et sp. nov., an early cuckoo (Aves: Cuculidae) from the Late Paleocene of Brazil.** Alcheringa 21: 123–127. (Earth Sci. Dept., Monash Univ., Clayton, Vic. 3168, Australia; EM: prich@artemis.earth.monash.edu.au).—Oldest and most primitive cuckoo known to date.—I.D.E.

Pleistocene & Holocene fossils & subfossils

WORTHY, T. H. 1997. **A mid-Pleistocene Rail from New Zealand.** Alcheringa 21: 71–78. (Palaeofaunal Surveys, 43 The Ridgeway, Nelson, NZ).—New genus and species *Pleistorallus flemingi*.—I.D.E.

TECHNIQUES

Censuses, maps, & surveys

ELPHICK, C. S. 1997. **Correcting avian richness estimates for unequal sample effort in atlas studies.** Ibis 139: 189–190. (Ecol., Evol. & Cons. Biol./186,

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- HELLE, P., ET AL. 1996. **Located observations in wild-life triangle scheme: use of geographic information systems.** Suomen Riista 42: 56–66. (Meltaus Game Res. Stn., Finnish Game Fish. Res. Inst., FIN-97340 Meltaus, Finland.) (Finnish, Engl. summ.)
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- HÖGMANDER, H., & A. PENTTINEN. 1996. **Some statistical aspects of Finnish wildlife triangles.** Finn. Game Res. 49: 37–43. (Univ. Jyväskylä, Statistics, P.O. Box 35, FIN-40351, Jyväskylä, Finland.)
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- WITHAM, J. W., & A. J. KIMBALL. 1996. **Use of a geographic information system to facilitate analysis of spot-mapping data.** J. Field Ornithol. 67: 367–375. (Coll. Nat. Resour. For. Agric., Univ. Maine, Orono, ME 04469, USA.)—Write a program (BIRD-MAP) using the programming language PC ARC/INFO to digitize data from field maps.—R.A.I.
- Field methods**
- ROBERT, M., & P. LAPORTE. 1997. **Field techniques for studying breeding Yellow Rails.** J. Field Ornithol. 68: 56–63. (Environ. Can., 1141 Rt. l'église, P.O. Box 10100, Sainte-Foy, PQ G1V 4H5, Can.)—*Coturnicops noveboracensis*.
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- DANIELSON, W. R., R. M. DEGRAAF, & T. K. FULLER. 1996. **An inexpensive compact automatic camera system for wildlife research.** J. Field Ornithol. 67: 414–421. (Dept. For. Wildl. Manage., Univ. Massachusetts, Amherst, MA 01003, USA.)
- Physiological methods**
- DE REBEIRA, P. 1997. **A weighing cone design for use on electronic balances.** Corella 21: 55–77. (12 Glenwood Ave., Glen Forrest, WA 6071, Australia).—Free standing on balance pan.—I.D.E.
- GRÉMILLET, D., ET AL. 1996. **Determining food intake by Great Cormorants and European Shags with electronic balances.** J. Field Ornithol. 67: 637–648. (Inst. Meereskunde, Düsterbrookweg 20, D-24105 Kiel, Germany.)—*Phalacrocorax carbo*, *Phalacrocorax aristotelis*.
- Predator control**
- ESTELLE, V. B., T. J. MABEE, & A. H. FARMER. 1996. **Effectiveness of predator exclosures for Pectoral Sandpiper nests in Alaska.** J. Field Ornithol. 67: 447–452. (Colorado Bird Obs., 13401 Piccadilly Rd., Brighton, CO 80601, USA.)—Daily survival rate significantly greater in *Calidris melanotos*.—R.A.I.
- HEIN, E. W., & W. S. HEIN. 1996. **Effect of flagging on predation of artificial duck nests.** J. Field Ornithol. 67: 604–611. (Environ. Sci. Group, MS J495, Los Alamos, NM 87545, USA.)—Mortality rate higher for flagged nests between days 8 and 14.—R.A.I.
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- DZUS, E. H., & R. G. CLARK. 1996. **Effects of harness-style and abdominally implanted transmitters on survival and return rates of Mallards.** J. Field Ornithol. 67: 549–557. (Dept. Biol. Sci., Univ. Alberta, Edmonton, AB T6G 2E9, Can.)—*Anas platyrhynchos*.
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- GEORGES, J.-Y., ET AL. 1997. **Satellite tracking of seabirds: interpretation of activity patterns from the frequency of satellite locations.** Ibis 139: 403–405. (CEBC-CNRS, 79360 Villiers en Bois, France.)
- KORSCHGEN, C. E., ET AL. 1996. **Technique for implanting radio transmitters subcutaneously in day-old ducklings.** J. Field Ornithol. 67: 392–397.

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- TODD, M. A. 1997. **Radio telemetry of Red-browed Finch *Neochmia temporalis* at Newcastle, New South Wales.** *Corella* 21: 88–89. (Dept. Biol. Sci., Univ. Newcastle, Univ. Dr., Callaghan, NSW 2308, Australia.)—Tracking successful mainly because birds were sedentary.—I.D.E.
- VEKASY, M. S., ET AL. 1996. **Influence of radio transmitters on Prairie Falcons.** *J. Field Ornithol.* 67: 680–690. (Sustainable Ecosystems Inst., 30 E. Franklin Rd., Meridian, ID 83642, USA.)—*Falco mexicanus*.
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- Florida, Gainesville, FL 32611, USA.)—*Caracara plancus audubonii*; 67% success rate with a combination of Q-net and tethered lure.—R.A.I.
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- WENDELN, H., R. NAGEL, & P. H. BECKER. 1996. **A technique to spray dyes on birds.** *J. Field Ornithol.* 67: 442–446. (Inst. Vogelforschung, An der Vogelwarte 21, D-26386 Wilhelmshaven, Germany.)—*Sterna hirundo*.
- YERKES, T. 1997. **A trap for ducks using artificial nesting structures.** *J. Field Ornithol.* 68: 147–149. (Dept. Zool., Univ. Manitoba, Winnipeg, MB R3T 2N2, Can.)—*Anas platyrhynchos*, *Aythya americana*.

Trapping, netting, banding, & marking

- FORSMAN, E. D., ET AL. 1996. **A color band for Spotted Owls.** *J. Field Ornithol.* 67: 507–510. (Dept. Fish. Wildl., Oregon State Univ., Corvallis, OR 97331, USA.)—*Strix occidentalis*.
- MORRISON, J. L., & S. M. MCGEHEE. 1996. **Capture methods for Crested Caracaras.** *J. Field Ornithol.* 67: 630–636. (Dept. Wildl. Ecol. Conserv., Univ.

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