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RECENT LITERATURE
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RECENT LITERATURE

EDITED BY HERBERT W. KALE ¹

ANATOMY AND EMBRYOLOGY

- BENZO, C. A., AND L. D. DeGENNARO. 1974. Glycogen synthetase and phosphorylase in developing chick glycogen body. *J. Exp. Zool.* 188: 375-380.
- BENZO, C. A., L. D. DeGENNARO, AND S. B. STEARNS. 1975. Glycogen metabolism in the developing chick glycogen body: Functional significance of the direct oxidative pathway. *J. Exp. Zool.* 193: 161-166.—The glycogen body may be linked metabolically to lipid synthesis and myelin formation in the CNS of avian embryos.—A.S.G.
- GREENWALT, C. H. 1975. The flight of birds: The significant dimensions, their departure from the requirements for dimensional similarity, and the effect on flight aerodynamics of that departure. *Trans. Amer. Philosophical Soc. New Series* 65(4): 1-67.
- HEATON, M. B., AND M. S. HARTH. 1974. Non-visual light responsiveness in the pigeon: Developmental and comparative considerations. *J. Exp. Zool.* 188: 251-264.—Embryos and hatchlings of *Columba livia*, but not embryos of *Gallus gallus* or hatchlings of *Streptopelia risoria*, possess a dermal light sensitivity.—A.S.G.
- IWAMURA, Y., H. KOSHIHARA, AND T. NOUMURA. 1975. Studies on differentiation of Müllerian ducts in quail, *Coturnix coturnix japonica*, part 2, effects on nucleic acid synthesis in isolated female ducts. *J. Exp. Zool.* 192: 25-32.—Treatment with sex hormones may inhibit incorporation of ¹⁴C-thymidine by the right duct.—A.S.G.
- MACARAK, E. J. 1975. An ultrastructural study of adhesive junctions in re-aggregates of unincubated chick embryos. *J. Morphol.* 147: 41-60.—Reaggregates have an external phase of primitive ectoderm and an internal phase of primitive endoderm. Cells in the former have unspecialized junctions; those in the latter are joined by desmosomes.—A.S.G.
- SARVELLA, P., AND M. GEHMAN. 1975. Development of parthenogenic membranes in double-yolked and injected eggs of chickens. *J. Exp. Zool.* 192: 143-148.—The incidence of parthenogenic membrane formation in double-yolked eggs is higher than expected, but a causative agent remains obscure.—A.S.G.
- SAWYER, R. H. 1975. Avian scale development, part 5, ultrastructure of the chorionic epithelium induced by anterior shank dermis from the scaleless mutant. *J. Exp. Zool.* 191: 133-139.
- SAWYER, R. H., U. K. ABBOTT, AND G. H. FRY. 1974. Avian scale development, part 3, ultrastructure of the keratinizing cells of the outer and inner epidermal surfaces of the scale ridge. *J. Exp. Zool.* 190: 57-70.
- SAWYER, R. H., U. K. ABBOTT, AND G. N. FRY. 1974. Avian scale development, part 4, ultrastructure of the anterior shank skin of the scaleless mutant. *J. Exp. Zool.* 190: 71-78.
- VAN SOEST, R. W. M., AND W. L. VAN UTRECHT. 1971. The layered structure of bones of birds as a possible indication of age. *Bijdragen tot de Dierkunde* 41: 61-66.
- WHITE, P. T. 1974. Experimental studies on the circulatory system of the late chick embryo. *J. Exp. Biol.* 61: 571-592, 1 pl.—Development of a technique for removing the embryo without disturbing the membrane-shell relationship permits a wide variety of studies. Compares results with those from the better known mammalian system.—A.S.G.

¹Address: Florida Audubon Society, 35-1st Court SW, Vero Beach, Florida 32980.

BEHAVIOR

- ARCHER, J. 1974. The effects of testosterone on the distractability of chicks by irrelevant novel stimuli. *Anim. Behav.* 22: 397-404.
- ARCHER, J. 1974. Testosterone and behaviour during extinction in chicks. *Anim. Behav.* 22: 650-655.
- ANDREW, R. J. 1975. Effects of testosterone on the behaviour of the domestic chick, part 1, effects present in males but not in females. *Anim. Behav.* 23: 139-155.
- ANDREW, R. J. 1975. Effects of testosterone on the behaviour of the domestic chick, part 2, effects present in both sexes. *Anim. Behav.* 23: 156-168.
- ANDREW, R. J. 1975. Effects of testosterone on the calling of the domestic chick in a strange environment. *Anim. Behav.* 23: 169-178.
- ARNOLD, A. P. 1975. The effects of castration on song development in Zebra Finches (*Poephila guttata*). *J. Exp. Zool.* 191: 261-278.—Castration of males at 9-17 days slows but does not prevent development of normal song.—A.S.G.
- ARNOLD, A. P. 1975. The effects of castration and androgen replacement on song, courtship, and aggression in Zebra Finches (*Poephila guttata*). *J. Exp. Zool.* 191: 309-326.—Castration reduces frequency of courtship, copulation, and aggression, the rate of singing, and tempo of songs. Androgen replacement reverses these changes. Persistence of song in the absence of androgens may be related to the unpredictability of the Zebra Finch's breeding season.—A.S.G.
- BALTHAZART, J., AND M. STEVENS. 1975. Effects of testosterone propionate on the social behaviour of groups of male domestic ducklings, *Anas platyrhynchos* L. *Anim. Behav.* 23: 926-931.
- BATESON, P. P. G., AND J. A. JAECKEL. 1974. Imprinting: Correlations between activities of chicks during training and testing. *Anim. Behav.* 22: 899-906.
- BECKER, P. H. 1974. Der Gesang von Winter- und Sommergoldhähnchen (*Regulus regulus*, *R. ignicapillus*) am westlichen Bodensee. *Vogelwarte* 27: 233-243.—Sonographic analysis of songs of the Goldcrest and Firecrest. (English summary.)—H.C.M.
- BERGER, R. H. 1975. Cardinal observed feeding House Sparrows. *Bull. Oklahoma Ornithol. Soc.* 8: 7.
- BERGMANN, H. H., S. KLAUS, F. MÜLLER, AND J. WIESNER. 1975. Individualität und Artsspezifität in den Gesangsstrophen einer Population des Haselhuhns (*Bonasa bonasia bonasia* L. Tetraoninae Phasianidae). *Behaviour* 55: 94-114.—Study of song variation in a free-living population of Hazel Grouse. (English summary.)—F.E.L.
- BOWMAN, M. C. 1974. Whip-poor-will singing in winter. *Florida Field Naturalist* 2: 44-45.
- BROEKHUYSEN, G. J. 1974. The Behaviour of White Storks (*Ciconia ciconia*) hatched in South Africa. *Vogelwarte* 27: 166-185.—Observations of four storks taken from nests in South Africa and maintained in captivity suggest a "migratory restlessness" in the southern autumn. The activities interpreted as restlessness seemed to decrease with age.—H.C.M.
- BROWN, C. P. 1975. Responsiveness to auditory stimulation in young chicks: Modification as a function of auditory experience during rearing. *Anim. Behav.* 23: 602-608.
- BURGER, J. 1974. Breeding adaptations of Franklin's Gull (*Larus pipixcan*) to a marsh habitat. *Anim. Behav.* 22: 521-567.—This monographic paper describes most aspects of breeding behavior, includes comparisons with typical ground- and cliff-nesting gulls, and discusses the possibility that the ancestral gull may have been a marsh nester.—F.E.L.
- BURGER, J., AND C. G. BEER. 1975. Territoriality in the Laughing Gull (*Larus atricilla*). *Behaviour* 55: 301-320.—A field study with comparisons between a Laughing Gull colony in a tidal salt marsh in New Jersey and one on a Texas coastal island where tidal fluctuations were minimal.—F.E.L.
- CHEKE, R. A., AND J. A. COLES. 1975. "Freezing" behaviour of Pheasants on tree branches. *Brit. Birds* 68: 207-208.—Female *Phasianus colchicus*

- "freezing" against tree branch.—J.J.D.
- COLLAR, N. 1975. Golden Orioles [*oriolus oriolus*] diving into water. *Brit. Birds* 68: 245-246.
- COOK, W. T., AND P. B. SIEGEL. 1974. Social variables and divergent selection for mating behaviour of male chickens (*Gallus domesticus*). *Anim. Behav.* 22: 390-396.
- COOMBER, R. 1975. Contrasting predator-reactions of two Oystercatcher chicks. *Brit. Birds* 68: 157.—One *Haematopus ostralegus* chick swam underwater to escape a human while the other swam underwater to escape being "shepherded" by an adult Red-breasted Merganser (*Mergus serrator*).—J.J.D.
- COWAN, P. J., AND R. M. EVANS. 1974. Calls of different individual hens and the parental control of feeding behavior in young *Gallus gallus*. *J. Exp. Zool.* 188: 353-360.—Chicks show selective food pecking in response to parental calls.—A.S.G.
- CURIO, E. 1975. The functional organization of anti-predator behaviour in the Pied Flycatcher. A study of avian visual perception. *Anim. Behav.* 23: 1-115.—This monograph tries to answer the question, how does a small palae-arctic songbird, *Ficedula hypoleuca*, recognize its enemies? The author studied 3 German populations and a disjunct Spanish population over a 17-year period. The paper opens with a survey of the Pied Flycatcher's two responses, either mobbing at a distance or snarling attack, to predators that prey on small birds skillfully or enemies that are generally incapable of dangerous retaliation. The major portion of the paper is a detailed description, including ontogeny, of antipredator responses, and an analysis of the releasing stimuli based on field experiments with natural and artificial models.—F.E.L.
- DAVIS, J. M. 1975. Socially induced flight reactions in pigeons. *Anim. Behav.* 23: 597-602.—Experiments with free-ranging feral *Columba livia* demonstrate that flight of one pigeon elicits alarmed flight in the rest of the flock if the first bird's takeoff is not preceded by preflight movements that enabled the flock to predict its occurrence.—F.E.L.
- DESFORGES, M. F., AND D. G. M. WOOD-GUSH. 1975. A behavioural comparison of domestic and Mallard ducks. Habituation and flight reaction. *Anim. Behav.* 23: 692-698.
- DESFORGES, M. F., AND D. G. M. WOOD-GUSH. 1975. A behavioural comparison of domestic and Mallard ducks. Spatial relationships in small flocks. *Anim. Behav.* 23: 698-705.
- DUNBAR, R. I. M., AND J. H. CROOK. 1975. Aggression and dominance in the Weaver Bird, *Quelea quelea*. *Anim. Behav.* 23: 450-459.
- EVANS, R. M. 1975. Stimulus intensity and acoustical communication in young domestic chicks. *Behaviour* 55: 73-80.
- GIEZENTANNER, K. I., AND W. H. CLARK. 1974. The use of western harvester ant mounds as strutting locations by Sage Grouse. *Condor* 76: 218-219.
- GILBERTSON, D. W. 1975. Courtship as a reinforcement for key pecking in the pigeon, *Columba livia*. *Anim. Behav.* 23: 735-745.
- GINSBURG, H. J., W. G. BRAUD, AND R. D. TAYLOR. 1974. Inhibition of distress vocalizations on the open field as a function of heightened fear or arousal in domestic fowl (*Gallus gallus*). *Anim. Behav.* 22: 745-749.
- GOSSOP, M. R. 1974. Movement variables and the subsequent following response of the domestic chick. *Anim. Behav.* 22: 982-986.
- GRAUL, W. D. 1974. Vocalizations of the Mountain Plover. *Wilson Bull.* 86: 221-229.
- GRIFFIN, D. R., AND C. D. HOPKINS. 1974. Sounds audible to migrating birds. *Anim. Behav.* 22: 672-678.—As sound travels upward much farther and more predictably than along the surface, natural sounds offer migrating birds a potential source of information about the kinds of land or water below them. (Author's summary).—F.E.L.
- HARRIS, M. A., AND R. E. LEMON. 1974. Songs of Song Sparrows: Reactions of males to songs of different localities. *Condor* 76: 33-44.

- HEIDEMANN, M. K., AND L. W. ORING. 1976. Functional analysis of Spotted Sandpiper (*Actitis macularia*) song. Behaviour 56: 181-193.—Based on visual response of individuals to playback experiments conducted during the breeding season.—F.E.L.
- HERBERT, N. G., AND R. W. SCHREIBER. 1975. Diurnal activity of Brown Pelicans at a marina. Florida Field Naturalist 3: 11-12.—*Pelecanus occidentalis* probably adjusts its daily activity in order to be at marinas during the afternoon when fishermen return.—J.C.O.
- HOWE, M. A. 1974. Observations on the terrestrial wing displays of breeding Willets. Wilson Bull. 86: 286-288.
- HUBBARD, J. P. 1974. Flight displays in two American species of *Buteo*. Condor 76: 214-215.—(*B. jamaicensis*, *B. albonotatus*).—H.W.K.
- HUGHES, B. O., D. G. M. WOOD-GUSH, AND R. M. JONES. 1974. Spatial organization in flocks of domestic fowls. Anim. Behav. 22: 438-445.
- IMPEKOVEN, M. 1976. Responses of Laughing Gull chicks (*Larus atricilla*) to parental attraction- and alarm-calls and effect of prenatal auditory experience on the responsiveness to such calls. Behaviour 56: 250-278.—Parental experience enhances the correct response to attraction calls but not to alarm calls. In chicks lacking prenatal experience with attraction calls, posthatching exposure to the same calls increasingly elicits alarm or avoidance suggesting the existence of a late prenatal or perinatal sensitive period.—F.E.L.
- KERMOTT, L. H., AND L. W. ORING. 1975. Acoustical communication of male Sharp-tailed Grouse (*Pedioecetes phasianellus*) on a North Dakota dancing ground. Anim. Behav. 23: 375-386.—Describes vocalizations and discusses the information they convey.—F.E.L.
- KILHAM, L. 1974. Copulatory behavior of Downy Woodpeckers. Wilson Bull. 86: 23-34.
- KILHAM, L. 1974. Covering of stores by White-breasted and Red-breasted Nuthatches. Condor 76: 108-109.
- KILHAM, L. 1974. Play in Hairy, Downy, and other woodpeckers. Wilson Bull. 86: 35-42.
- KING, B. 1975. Guillemot [*Uria aalge*] swimming on its back when under water. Brit. Birds 68: 159.
- KOVACH, J. K., AND G. C. WILSON. 1975. Binary assessment of early approach-behaviour in the Japanese Quail. Anim. Behav. 23: 357-367.
- KREBS, J. R., J. C. RYAN, AND E. L. CHARNOV. 1974. Hunting by expectation or optimal foraging? A study of patch use by chickadees. Anim. Behav. 22: 953-964.—Results of an experimental study with six hand-raised *Parus atricapillus* are more consistent with the optimal foraging model of patch use (E. L. Charnov) than with the hypothesis of hunting by expectation (J. A. Gibb).—F.E.L.
- KUSHLAN, J. A. 1973. Black-crowned Night Heron diving for prey. Florida Field Naturalist 1: 27-28.
- LECK, C. F. 1974. Sunbathing in the Streamertail Hummingbird. Wilson Bull. 86: 78-79.
- LEE, D., AND B. ROTHGABER. 1973. Late summer mating of the Black-billed Cuckoo. Maryland Birdlife 29: 143.—Copulation seen on 23 August.—H.B.
- LIGON, J. D., AND D. J. MARTIN. 1974. Pinon seed assessment by the Pinon Jay, *Gymnorhinus cyanocephalus*. Anim. Behav. 22: 421-429.—Results of an experimental study with wild-caught adults and hand-reared yearlings and juveniles indicate that ability to discriminate between good and bad pinon pine seeds is based on visual, tactile, and auditory clues and improves with practice. Also, naive jays have an immediate preference for pinon seeds over other objects.—F.E.L.
- MARTI, C. D. 1974. An unusual House Sparrow roost. Condor 76: 229.—A subterranean transformer vault.—H.W.K.
- MCCRIMMON, D. A., JR. 1974. Stretch and snap displays in the Great Egret. Wilson Bull. 86: 165-167.

- MOCK, D. W. 1974. Aerial hunting by Little Blue Herons. *Wilson Bull.* 86: 280-282.
- MORGAN, P. A., AND P. E. HOWSE. 1974. Conditioning of Jackdaws (*Corvus monedula*) to normal and modified distress calls. *Anim. Behav.* 22: 688-694.
- MORRIS, L. 1975. Effect of blackened epaulets on the territorial behavior and breeding of male Red-winged Blackbirds, *Agelaius phoeniceus*. *Ohio J. Sci.* 75: 168-176.—The male's ability to defend territories was weakened, but not destroyed, in both pre- and postbreeding periods; treated males were able to mate and breed.—A.S.G.
- NESBITT, S. A. 1975. Voice maturity in Florida Sandhill Cranes. *Florida Field Naturalist* 3: 19.—Adult calls are first given by birds between 40 and 43 weeks of age.—J.C.O.
- NESBITT, S. A. 1975. Feather staining in Florida Sandhill Cranes. *Florida Field Naturalist* 3: 28-30.—*Grus canadensis* at one northern Florida site selected soil that was higher in iron content than surrounding soil for feather staining. Both adults and subadults apply soil to feathers. Author suggests that more study of staining by cranes is needed; for example, why do gray cranes (*G. canadensis* and *G. grus*) stain, but not white cranes?—J.C.O.
- NICKI, R. M., AND J. A. ROGERS. 1975. Approach and following behavior of 24-hr-old chicks as a function of stimulus complexity. *Anim. Behav.* 23: 116-123.
- OLENDORF, R. R. 1974. A courtship flight of the Swainson's Hawk. *Condor* 76: 215.
- PARKER, A. 1975. Young male Peregrines [*Falco peregrinus*] passing vegetation fragments to each other. *Brit. Birds* 68: 242-243.
- PEFAUR, J. E. 1974. Egg-neglect in the Wilson's Storm-Petrel. *Wilson Bull.* 86: 16-22.
- POWELL, G. V. N. 1974. Experimental analysis of the social value of flocking by Starlings (*Sturnus vulgaris*) in relation to predation and foraging. *Anim. Behav.* 22: 501-505.—Individual Starlings, either in flocks of other Starlings or *Agelaius tricolor*, spent significantly less time in surveillance and responded more quickly to a flying model hawk than did single birds or individuals in smaller flocks.—F.E.L.
- PRESCOTT, K. W. 1973. Distraction display and "natural" death of a Blue Jay. *IBB News* 45: 107.—While a jay was being removed from a trap, another called repeatedly and feigned injury nearby, and then fell over dead.—D.M.F.
- RADFORD, A. P. 1975. Unusual pre-copulatory display by Song Thrush [*Turdus philomelos*]. *Brit. Birds* 68: 210.
- ROACH, T. C. 1975. Red-bellied Woodpecker removes young from nest. *Florida Field Naturalist* 3: 19.—Adult male *Centurus carolinus* carried separately three young and one egg from nest. Author implies that young were living.—J.C.O.
- RODGERS, J. A., JR. 1974. Aerial feeding by Snowy and Great Egrets in Louisiana waters. *Condor* 76: 70-71.
- ROSAIR, D. B. 1975. Swallows [*Hirundo rustica*] chasing bats. *Brit. Birds* 68: 248.
- ROTHSTEIN, S. I. 1975. Mechanisms of avian egg-recognition: Do birds know their own eggs? *Anim. Behav.* 23: 268-278.—Results of field experiments with real and artificial eggs reveal that 7 species (*Turdus migratorius*, *Dumetella carolinensis*, *Toxostoma rufum*, *Tyrannus tyrannus*, *T. verticalis*, *Cyanocitta cristata*, and *Bombycilla cedrorum*) of 35 North American passerines tested can recognize their own eggs regardless of the number of foreign eggs in the nest.—F.E.L.
- RYLANDER, M. K., AND E. G. BOLEN. 1974. Analysis and comparison of gaits in whistling ducks (*Dendrocygna*). *Wilson Bull.* 86: 237-245.
- SAMUEL, D. E. 1974. Ruffed Grouse vocalizations at the drumming log. *Wilson Bull.* 86: 131-135.
- SCHOMMER, M., AND B. TSCHANZ. 1975. Lautbussierungen junger Trottellummen

- (*Uria a. aalge* als individuelle Merkmale. Vogelwarte 28: 17-44.—A study of the calls, and their development in incubator-hatched, hand-reared Common Murres. All calls change during ontogeny. At least three of the nine calls show great individual variation. An interesting, thorough study. (English summary.)—H.C.M.
- SHIOVITZ, K. A. 1975. The process of species-specific song recognition by the Indigo Bunting *Passerina cyanea*, and its relationship to the organization of avian acoustical behavior. Behaviour 55: 128-179.—This important paper includes the results of playback experiments of bunting songs on a Michigan population of Indigo Buntings, comparisons of songs of three species of *Passerina*, and a table of synonyms of terms used to describe bird song.—F.E.L.
- SIEGEL, H. S., AND J. W. LATIMER. 1975. Social interactions and antibody titres in young male chickens (*Gallus domesticus*). Anim. Behav. 23: 323-330.
- SIEGFRIED, W. R., AND L. G. UNDERHILL. 1975. Flocking as an anti-predator strategy in doves. Anim. Behav. 23: 504-508.—Field experiments with *Streptopelia senegalensis* at a feeder utilizing a model hawk suspended from a wire provide evidence that a large flock has a higher probability of detecting an approaching predator than a small flock.—F.E.L.
- SLATER, P. J. B. 1974. The temporal pattern of feeding in the Zebra Finch. Anim. Behav. 22: 506-515.—Study of captive *Taeniopygia guttata*.—F.E.L.
- SMITH, D. G. 1976. An experimental analysis of the function of Red-winged Blackbird song. Behaviour 56: 136-156.—A vocalization experiment on territorial male *Agelaius phoeniceus* indicated that species typical song is not essential for maintaining territory or obtaining a mate and raising young successfully. Includes a discussion of various anesthetics and a design of a trap for fast capture of territorial males.—F.E.L.
- SMITH, S. M. 1976. Predatory behaviour of young Turquoise-browed Motmots, *Eumomots superciliosa*. Behaviour 56: 309-320.—Experiments with 9 hand-reared birds and appropriate models reveal that motmots direct their attack to the anterior end of a moving target, tend to ignore camouflaged models, and show a strong aversion to a pattern resembling a coral snake.—F.E.L.
- SNOW, B. K. 1974. Vocal mimicry in the Violaceous Euphonia, *Euphonia violacea*. Wilson Bull. 86: 179-180.
- SOUTHERN, W. E. 1974. American Kestrel transports Norway Rat. Wilson Bull. 86: 285.
- SPURR, E. B. 1974. Individual differences in aggressiveness of Adelie Penguins. Anim. Behav. 22: 611-616.—An experimental study of *Pygoscelis adeliae* on the breeding grounds showed that aggression reaches a peak at chick hatching time and that the more aggressive penguins hold territories in the center of the colony and have a higher breeding success than less aggressive ones.—F.E.L.
- STADDON, J. E. R., AND J. FRANK. 1974. Mechanisms of discrimination reversal in pigeons. Anim. Behav. 22: 802-828.—Domestic *Columba livia*.—F.E.L.
- STEDMAN, S. J. 1974. Singular Brown Pelican feeding behavior. Florida Field Naturalist 2: 44.—An immature *Pelecanus occidentalis* snapping off water lily flowers (*Nymphaea*).—J.C.O.
- STEVENSON-HINDE, J., AND R. ROPER. 1975. Individual differences in reinforcing effects of song. Anim. Behav. 23: 729-734.—*Fringilla coelebs*.
- STICKLEY, A. R., AND D. E. STEFFEN. 1974. Unusual crepuscular blackbird movements. Wilson Bull. 86: 84-85.
- STOUT, J. F. 1975. Aggressive communication by *Larus glaucescens*, part 3, description of the displays related to territorial protection. Behaviour 55: 181-208.—Detailed description and significance of displays based on movies and sonograms.—F.E.L.
- THIELCKE, G. 1974. Stabilität erlernter Singvogel-Gesänge trotz vollständiger geographischer isolation. Vogelwarte 27: 209-215.—The author listened to the songs of 11 or the 14 European passerines established in New Zealand and detected no differences between the songs of the immigrants and those of native European birds. Only 4 species were examined with sonograms. At least the Blackbird and the Chaffinch learn elements of the song, yet no

- change was noted in New Zealand birds. (English summary.)—H.C.M.
- TREMAINE, M. M. 1974. A possible "assist" to a hatching chick by an adult Whimbrel. *Wilson Bull.* 86: 77-78.
- VINICOMBE, K. E. 1975. "Freezing" attitudes of Hoopoes when approached by men. *Brit. Birds* 68: 208.—*Upupa epops* "freezing" against branch.—J.J.D.
- WEIR, D., AND N. PICOZZI. 1975. Aspects of social behaviour in the Buzzard. *Brit. Birds* 68: 125-141.—Detailed descriptions, with line drawings, of postures and calls used for spacing by *Buteo buteo*.—J.J.D.
- WHITE, S. J. 1975. Effects of stimuli emanating from the nest on the reproductive cycle in the Ring Dove, part 1, pre-laying behaviour. Part 2, building in the post-laying period and effects on the success of the cycle. *Anim. Behav.* 23: 854-868, 869-882, 883-888.—*Streptopelia risoria*.
- WINDSOR, D. M. 1975. Regional expression of directional preferences by experienced homing pigeons. *Anim. Behav.* 23: 335-343.
- WOOLFENDEN, G. E. 1975. Dusting by a Red-bellied Woodpecker. *Florida Field Naturalist* 3: 51.
- ZAJONC, R. B., W. R. WILSON, AND D. W. RAJECKI. 1975. Affiliation and social discrimination produced by brief exposure in day-old domestic chicks. *Anim. Behav.* 23: 131-138.

DISEASES AND PARASITES

- ANDERSON, W. L. 1975. Lead poisoning in waterfowl at Rice Lake, Illinois. *J. Wildl. Mgmt.* 39: 264-270.—An estimated 1500 waterfowl died of lead poisoning. Of the 394 birds collected 75% were *Aythya affinis*. Of the 96 examined, 75% had 1 or more lead pellets and 36% had 10 or more. Positive correlations existed between the number of pellets in the gizzard and body weight, the number of pellets in the gizzard and ppm of lead in kidney and wing bones, and ppm of lead in liver and ppm of lead in wing bones.—L.H.F.
- CASTO, S. D. 1974. Entry and exit of syringophilid mites (Acarina: Syringophilidae) from the lumen of the quill. *Wilson Bull.* 86: 272-278.
- COOPER, C. L., AND J. L. CRITES. 1974. Helminth parasitism in juvenile House Sparrows, *Passer domesticus* (L.), from South Bass Island, Ohio, including a list of helminths reported from this host in North America. *Ohio J. Sci.* 74: 388-389.—Four trematodes, 6 cestodes, 6 nematodes, and 3 acanthocephelans.—A.S.G.
- FREITAG, R., AND J. P. RYDER. 1973. An annotated list of arthropods collected from Ring-billed Gull nests on Granite Island, Black Bay, Lake Superior 1972 and 1973. *Entomol. Soc. Ontario* 104: 38-46.
- NESBITT, S. A., AND F. H. WHITE. 1974. A *Salmonella typhimurium* outbreak at a bird feeding station. *Florida Field Naturalist* 2: 46-47.—Ten species affected.—J.C.O.
- PETERSON, S. R., AND R. S. ELLARSON. 1975. Incidence of body shot in Lake Michigan Oldsquaws. *J. Wildl. Mgmt.* 39: 217-219.
- RYDER, J. P., AND R. FREITAG. 1974. Densities of arthropod populations in nests of Ring-billed Gulls. *Canadian Entomol.* 106: 913-916.
- SHREIBER, R. W., F. M. DUNSTAN, AND J. J. DINSHORE. 1975. Lesser Scaup mortality in Tampa Bay, Florida, 1974. *Florida Field Naturalist* 3: 13-15.—Details of an unexplained die-off by several thousand *Aythya affinis*.—J.C.O.

DISTRIBUTION AND ANNOTATED LISTS

- BUNDY, G. 1975. Reed Warblers breeding in Shetland. *Brit. Birds* 68: 210-211.—First breeding record of *Acrocephalus scirpaceus* in Scotland.—J.J.D.
- CLARK, W. S. 1974. Occurrence of Swainson's Hawk substantiated in New Jersey. *Wilson Bull.* 86: 284-285.
- COLEBROOK-ROBJENT, J. F. R. 1973. Some breeding records of birds in Zambia. *Zambia Mus. J.* 4: 7-18.—Nests recorded during the period September 1966 through December 1972.—M.L.

- DOWSETT, R. J. 1973. The forest avifauna of the Misuku Hills in Malawi. *Zambia Mus. J.* 4: 19-36. Annotated list of birds observed and collected 22-29 October 1972, with mention of other species from the area reported in the literature.—M.L.
- DUNSTAN, F. M., R. W. SCHREIBER, AND J. J. DINSMORE. 1975. Caspian Tern nesting in Florida, 1973 and 1974. *Florida Field Naturalist* 3: 16-17.
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- 1973.—J.A.J.
- SCHREIBER, E. A., AND R. W. SCHREIBER. 1975. Royal Tern nesting on west coast peninsular Florida. *Florida Field Naturalist* 3: 46-47.
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- SCHREIBER, R. W., T. H. BELOW, AND W. B. ROBERTSON, JR. 1975. Nesting of Brown Pelicans (*Pelecanus occidentalis*) on the Dry Tortugas, Florida. *Florida Field Naturalist* 3: 47-48.—First reported pelican nesting on these pelagic islands in twentieth century.—J.C.O.
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- STEVENSON, H. M. 1975. Lesser Black-backed Gull summering in Florida. *Florida Field Naturalist* 3: 22.—*Larus fuscus* collected 9 July, 1974.—J.C.O.
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ECOLOGY AND POPULATION

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- AFFRE, G. 1974-1975. Dénombrement et distribution géographique des fauvelles du genre *Sylvia* dans une région du Midi de la France, part 1, méthodes. *Alauda* 42: 359-384. Part 2, résultats. *Alauda* 43: 229-262. A 22800 km² area in southern France, from Toulouse southward to the Pyrenees, and eastward to the Mediterranean Sea, was studied yearly between 15 April and 15 July from about 1963 to 1974, when a total of 2338 localities were visited. The data consist of lists of species per locality, and the present two papers use only the presence versus absence of a given species. Maps the distribution of 8 species of *Sylvia* on the 225 squares of a grid (each 10 km wide = 100 km²) covering the study area. Transforms the raw data by means of a mathematical model designed to obtain estimates of the number of breeding pairs. Presents the transformed data on maps and graphs showing a series of E-W and N-S transects. These two papers are a significant addition to biogeographic literature.—F.V.
- AINLEY, D. G., AND M. C. WHITT. 1973. Numbers of marine birds breeding in northern California. *Western Birds* 4: 65-70.
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- BARRAT, A., S. BOUGAEFF, Ph. DERENNE, J. X. LUFBERY, J. L. MOUGIN, AND B. TOLLU. 1974. Recherches écologiques et physiologiques sur la faune des terres

- Australes et Antarctiques françaises. Comité National Français Recherches Antarctiques. No. 33, 110 pp.—Presents several papers on the zoogeography of the region, breeding cycle of the Gray Petrel, avifauna of the Possession Islands, and the Kerguelens, measurements of internal and peripheral temperatures of King, Emperor, and Adelie Penguins, and the breeding biology of King Penguins. (In French; English summaries.)—H.W.K.
- BIBBY, C. J., AND C. R. TUBBS. 1975. Status, habitats and conservation of the Dartford Warbler [*Sylvia undata*] in England. *Brit. Birds* 68: 177-195.
- BJÖRKMÄN, G. 1975. The Bearded Tit *Parus biarmicus* at Lake Tåkern. *Vår Fågelvärld* 34: 296-310.—Seen in Sweden for the first time in June 1965, the species spread rapidly into at least 20 localities with breeding established in 5. This study of the Lake Tåkern population, which numbered 650 in the winter 1974-75, is based on banding. (English summary.)—L.deK.L.
- CACCAISE, D. F. 1974. Competitive relationship of the Common and Lesser Nighthawks. *Condor* 76: 1-20.
- CLARK, A. 1974. Report on the natal duck counts 1963-1970. *Ostrich* 45: 33-39.
- CRUZ, A. 1974. Feeding assemblages of Jamaican birds. *Condor* 76: 103-107.
- CYR, A. 1975. Méthode de description cartographique de l'habitat d'oiseaux forestiers. *Alauda* 43: 417-426.—A superposition of a map of breeding territories with a map (or maps) of vegetation cover (for one or more of six vertical strata) is alleged to help define the habitat of forest bird species. An example from a study area near Montreal uses *Empidonax minimus*, *Contopus virens*, *Seiurus aurocapillus*, and *Setophaga ruticilla* as sample species.—F.V.
- DEHAVEN, R. W., F. T. CRASE, AND P. P. WORENECKI. 1975. Breeding status of the Tricolored Blackbird, 1969-1972. *California Fish and Game* 61: 166-180.—Gives the size and location of 164 colonies of *Agelaius tricolor*. The range has not changed in the past 35 years but in the Central Valley of California the population has declined.—J.J.D.
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- EMLÉN, J. T. 1974. An urban bird community in Tucson, Arizona: Derivation, structure, regulation. *Condor* 76: 184-197.
- GAINES, D. 1974. Review of the status of the Yellow-billed Cuckoo in California: Sacramento Valley populations. *Condor* 76: 204-209.
- GOCHFELD, M. 1974. Waterbird colonies of Long Island, New York, part 1, introduction. *Kingbird* 24: 3-7.—Beginning a series of reports on the present status, recent history, and population trends of Laridae, Rynchopidae, Ardeidae, Threskiornithidae, and Pandionidae.—M.C.B.
- HENNY, C. J., M. M. SMITH, AND V. D. STOTTS. 1974. The 1973 distribution and abundance of breeding Ospreys in the Chesapeake Bay. *Chesapeake Sci.* 15: 125-133.
- HOLCOMB, L. C. 1974. The question of possible surplus females in breeding Red-winged Blackbirds. *Wilson Bull.* 86: 177-179.
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- KEMP, A. C., AND M. I. KEMP. 1975. Observations on the White-backed Vulture, *Gyps africanus* in the Kruger National Park, with notes on other avian scavengers. Koedoe 18: 51-68.—Includes breeding biology and success, relative abundance, and movements.—H.W.K.
- LEA, D., AND W. R. P. BOURNE. 1975. The birds of Orkney. Brit. Birds 68: 261-283.—A summary of the habitats and status of breeders, migrants, and winter residents as well as population estimates of seabirds of these islands. The development of an oil terminal is a threat to the seabirds.—J.J.D.
- LLOYD, C. S., C. J. BIBBY, AND M. J. EVERETT. 1975. Breeding terns in Britain and Ireland in 1969-74. Brit. Birds 68: 221-237.—Summarizes counts at nesting colonies and discusses factors affecting the survival of five species. *Sterna sandvicensis* and *S. dougallii* have declined while *S. hirundo*, *S. paradisaea*, and *S. albifrons* have probably increased slightly in numbers.—J.J.D.
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- MAXWELL, G. R., II, AND H. W. KALE, II. 1974. Population estimate of breeding birds on a spoil island in the Indian River, Indian River County, Florida. Florida Field Naturalist 2: 32-39.—Spoil island created in 1940's, first used for nesting by colonial water birds in early 1960's. Quantified study in early spring 1973 revealed over 2600 pairs of 13 species, mostly herons, egrets, and pelicans.—J.C.O.
- MEANLEY, B. 1975. The blackbird-starling roost problem. Atlantic Naturalist 30: 107-109.—Briefly describes species makeup, numbers, and winter roost locations in the U.S.—H.W.K.
- MEYBOHM, E., AND G. DAHMS. 1975. Über Altersaufbau, Reifealter und Ansiedlung beim Weisstorch (*C. ciconia*) im Nordsee-Küstenbereich. Vogelwarte 28: 44-61.—An analysis of 1105 band recoveries of the White Stork, of which 1076 are telescopic readings of bands on living birds! The paper comments on the age structure of the population, age at first breeding, and dispersal. (English summary.)—H.C.M.
- MOORE, N. W. 1975. Status and habitats of the Dartford Warbler [*Sylvia undata*], Whitethroat [*S. communis*], and Stonechat [*Saxicola torquata*] in Dorset in 1959-60. Brit. Birds 68: 196-202.
- MURTON, R. K., E. H. BUCHER, M. NORES, E. GOMEZ, AND J. REARTES. 1974. The ecology of the Eared Dove (*Zenaida auriculata*) in Argentina. Condor 76: 80-88.
- NESBITT, S. A. 1973. Wood Stork nesting in north Florida. Florida Field Naturalist 1: 25-26.—Reports 1972 nesting results at four small *Mycteria americana* colonies, a species on the decline in Florida.
- OGDEN, J. C. 1974. Aspects of Red-shouldered Hawk nesting in southern Florida. Florida Field Naturalist 2: 25-27.—Reports instances of reduced nesting success related to poor food supply, a nest with three adults in attendance, and apparent competition between *Buteo lineatus* and a pair of Barred Owls, *Strix varia*, for nesting site.—J.C.O.
- PERSSON, T. 1975. Marsh Harrier *Circus aeruginosus* and Bittern *Botaurus stellaris* at Lake Tåkern in 1972-1974. Vår Fågelvärld 34: 283-289.—Thanks to habitat changes offering good forage and protected nesting areas, the breeding populations of both species showed marked increases. (English summary.)—L.dek.L.
- POST, W. 1974. Functional analysis of space-related behavior in the Seaside Sparrow. Ecology 55: 564-575.—*Ammodramus maritima* nesting in ditched salt marshes occupy territories that are large all-purpose activity spaces. Territories in unaltered salt marshes are small spaces from which birds make distant foraging flights. Nest sites are more available in the altered habitat, but nest predation is higher. No differences were found in foraging, singing, and resting times, rate of delivery of food to young, or breeding success between the two dispersion patterns.—C.R.B.
- SCHUZ, E., AND J. SZIJJ. 1975. Bestandsveränderungen beim Weisstorch, fünfte Übersicht: 1959-1972. Vogelwarte 28: 61-93.—The fifth survey of

- European white stork populations, covering the years 1959-1972. Populations have declined, mainly in the north and east, with e.g. the population in Lower Saxony now only 8% of what it was in 1900. Some areas in the east show stable populations, and some even show recent increases. Breeding success varies greatly from year to year. Breeding success varies from place to place. Maximum breeding success is not attained until 7 years of age. (English summary.)—H.C.M.
- SHIELDS, W. M., AND T. C. GRUBB, JR. 1974. Winter bird densities on north and south slopes. *Wilson Bull.* 86: 125-130.—Birds preferred south-facing mountain slopes in New Jersey.—H.W.K.
- SINGER, F. J. 1974. Status of the Osprey, Bald Eagle, and Golden Eagle in the Adirondacks. *New York Fish Game J.* 21: 18-31.—Based on annual surveys of Adirondack Park, 1970-72, an estimated 55 Ospreys produced an average of 0.34 young per nest. The Bald Eagle population has disappeared, but two, possibly three pairs of Golden Eagles were present.—H.W.K.
- SLOAN, N. F. 1973. Status of breeding colonies of White Pelicans in the United States through 1972. *IBB News* 45: 83-96.
- SMITH, D. G., C. R. WILSON, AND H. H. FROST. History and ecology of a colony of Barn Owls in Utah.—*Condor* 76: 131-136.
- STEWART, R. E., AND H. A. KANTRUD. 1974. Breeding waterfowl populations in the prairie pothole region of North Dakota. *Condor* 76: 70-79.
- THOLLAY, J.-M. 1975. Les rapaces d'une zone de contact savane-forêt en Côte-d'Ivoire: Présentation du peuplement. *Alauda* 43: 75-102. Densité, dynamique et structure du peuplement. *Alauda* 43: 387-416.—Two papers on the birds of prey of Lamto, Ivory-Coast, where a 2700 ha reserve is maintained by École Normale Supérieure of Paris as a Tropical Ecology Field Station. The area is extremely rich in raptors (species numbers and density). Several aspects of raptor ecology (density, seasonal fluctuations, territory size, species numbers, impact of migrants, etc.) were studied during two 12-month periods, and other shorter sojourns.—F.V.
- THOMPSON, C. F., AND V. NOLAN, JR. 1973. Population biology of the Yellow-breasted Chat (*Icteria virens*) in southern Indiana. *Ecol. Monogr.* 43: 145-171.—A comprehensive analysis of many aspects of the life history of this species, based on data collected over a 4-year period on population density, breeding behavior, reproductive success, and movement.—C.R.B.
- TOMOFF, C. S. 1974. Avian species diversity in desert scrub. *Ecology* 55: 396-403.—In desert scrub communities in the Sonoran Desert in Southern Arizona, breeding bird population density and species diversity increase with habitat complexity. Bird species diversity is highly correlated with physiognomic cover diversity and not with foliage-height diversity, largely because of avian specificity in selection of plants for nest sites.—C.R.B.
- TRAMER, E. J. 1974. On latitudinal gradients in avian diversity. *Condor* 76: 123-130.
- WEBSTER, J. D. 1976. Bird densities in the Hoosier National Forest. *Indiana Audubon Quart.* 54: 1-6.
- WIENS, J. A. 1973. Pattern and process in grassland bird communities. *Ecol. Monogr.* 43: 237-270.
- WIENS, J. A. 1975. Avian communities, energetics, and functions in coniferous forest habitats. *In Proc. Symp. Mgmt. Forest and Range Habitats for Nongame Birds* (D. R. Smith, Tech. Coordinator). U. S. Dept. Agr. Forest Serv. Gen. Tech. Rept. WO-1: 226-265.—Breeding densities in various forest regions average 329-1456 individuals/km²; values are greatest in Pacific northwest forests, and lowest in immature stages of northeastern forests. Consumption of foliage insects and seeds may constitute a major functional role of birds in forest ecosystems, especially in relation to pest insect population dynamics and to reforestation processes.—L.F.
- WILLIS, E. O. 1974. Populations and local extinctions of birds on Barro Colorado Island, Panama. *Ecol. Monogr.* 44: 153-169.

EVOLUTION AND GENETICS

- ANDERSON, B. W., AND R. J. DAUGHERITY. 1974. Characteristics and reproductive biology of grosbeaks (*Pheucticus*) in the hybrid zone in South Dakota. *Wilson Bull.* 86: 1-11.
- DIAMOND, J. M. 1974. Colonization of exploded volcanic islands by birds. The supertramp strategy. *Science* 184: 803-806.
- FLUMM, D. S. 1975. Aberrant or hybrid swallow. *Brit. Birds* 68: 246-247.— Apparent hybrid *Hirundo rustica* X *H. daurica*.—J.J.D.
- FOSTER, M. S. 1974. A model to explain molt-breeding overlap and clutch size in some tropical birds. *Evolution* 28: 182-190.—Selection seems to have favored a small clutch size and more frequent renestings in many tropical birds, hence a prolonged breeding season that overlaps with molting.—L.L.S.
- KLOPFER, P. H., D. I. RUBINSTEIN, R. S. RIDGELY, AND R. J. BARNETT. 1974. Migration and species diversity in the tropics. *Proc. Natl. Acad. Sci.* 71: 339-340.—High species diversity can be promoted if young of a dominant species are subjected to heavy predation while their food is limited. This is seen among tropical birds which are exposed simultaneously to both conditions to a greater degree than are temperate zone species. Migration to the temperate zones during spring provides release from these conditions, while also precluding tropical zone breeding.
- KROODSMA, R. L. 1974. Hybridization in grosbeaks (*Pheucticus*) in North Dakota. *Wilson Bull.* 86: 230-236.
- MISRA, R. K., AND L.L. SHORT. 1974. A biometric analysis of oriole hybridization. *Condor* 76: 137-146.
- OLSON, S. L. 1973. Evolution of the rails of the South Atlantic Islands (Aves: Rallidae). *Smithsonian Contrib. Zool.* No. 152, 53 pp.—Describes the rails of Ascension, St. Helena, the Tristan Cunha group, and Gough Island. Describes two new extinct species and discusses evolution of flightlessness in rails.—H.W.K.
- PAYNE, R. B. 1974. The evolution of clutch size and reproductive rates in parasitic cuckoos. *Evolution* 28: 169-181.—Parasitic cuckoos reallocate energy usually given to nest building and other reproductive activities, to lay more clutches and more eggs than their nonparasitic relatives. Caloric "cost" appears to be greater in the latter than in the parasitic species. No general theory of evolution of reproductive rates fully agrees with the results obtained in this study.—L.L.S.
- PERRINS, C. M., AND P. J. JONES. 1974. The inheritance of clutch size in the Great Tit (*Parus major* L.). *Condor* 76: 225-229.

GENERAL BIOLOGY

- ANDERSON, T. R. 1975. Fecundity of the House Sparrow and the Tree Sparrow near Portage des Sioux, Missouri, U.S.A. *Intern. Studies on Sparrows* 8(1): 6-23.—Fecundity of *Passer montanus* exceeds that of *P. domesticus* in number of clutches per pair per season, mean clutch size, hatching success, and fledging success.—H.W.K.
- AUSTIN, G. T. 1974. Nesting success of the Cactus Wren in relation to nest orientation. *Condor* 76: 216-217.
- BELow, T. H. 1975. Ruddy Turnstones feeding on coconuts. *Florida Field Naturalist* 3: 50.
- BLEM, C. R., AND J. F. PAGELS. 1973. Feeding habits of an insular Barn Owl, *Tyto alba*. *Virginia J. Sci.* 24: 212-214.
- BROWN, R. A., AND R. J. O'CONNOR. 1974. Some observations on the relationship between Oystercatchers and cockles in Strangford Lough. *Irish Naturalist J.* 18: 73-80.
- BUCKLEY, J., AND J. G. GOLDSMITH. 1975. The prey of the Barn Owl (*Tyto alba alba*) in East Norfolk. *Mammal Rev.* 5: 13-16.—Mostly rodents and insectivores.—J.J.D.
- CAMPBELL, R. W. 1974. Rusty Blackbirds prey on sparrows. *Wilson Bull.* 86: 291-293.

- CANTELO, J., AND P. A. GREGORY. 1975. Feeding association between Common Tern [*Sterna hirundo*] and Razorbill [*Alca torda*]. *Brit. Birds* 68: 296-297.
- CASTO, S. D. 1974. Molt schedule of House Sparrows in northwestern Texas. *Wilson Bull.* 86: 176-177.
- CHRISTIE, D. A. 1975. Studies of less familiar birds. 176. Barred Warbler. *Brit. Birds* 68: 108-114.—Distribution, habitat, vocalizations, breeding biology, food, and migration of *Sylvia nisoria*.—J.J.D.
- CLARK, F. L. 1974. A further study of the food of Barn Owls, *Tyto alba* at a roost in County Galway. *Irish Naturalist J.* 18: 43-44.
- COLLOPY, M. W. 1973. Predatory efficiency of American Kestrels wintering in northwestern California. *Raptor Res.* 7: 25-31.
- CONNOLLY, G. E., M. E. FRY, AND J. FAMMATRE. 1976. Prey remains at a Golden Eagle, *Aquila chrysaetos*, nest near Hopland, California. *California Fish and Game* 62: 85-86.—Mostly deer, grey squirrels, and jack rabbits.—J.J.D.
- DARDEN, T. 1974. Common Grackles preying on fish. *Wilson Bull.* 86: 85-86.
- DAWSON, R. 1975. Choughs [*Pyrrhocorax pyrrhocorax*] feeding on blowfly larvae at cow carcass. *Brit. Birds* 68: 159-160.
- DAWSON, R. 1975. Marsh Sandpipers [*Tringa stagnatilis*] associating with feeding Avocets [*Recurvirostra avosetta*] and other species. *Brit. Birds* 68: 294-295.
- DEAN, W. R. J. 1974. Analysis of *Tyto alba* from Angola. *Zool. Africana* 9: 89-90.
- DENNIS, R. H., AND D. I. M. WALLACE. 1975. Field identification of Short-toed [*Calandrella cinerea*] and Lesser Short-toed Larks [*C. rufescens*]. *Brit. Birds* 68: 238-241.
- EATON, S. W., F. M. EVANS, J. W. GLIDDEN, AND B. D. PENROD. 1976. Annual range of Wild Turkeys in southwestern New York. *New York Fish and Game J.* 23: 20-33.
- EVERETT, M. J., AND N. HAMMOND. 1975. Dunnock [*Prunella modularis*] killing Dunnock. *Brit. Birds* 68: 118-119.
- FAIRLEY, J. S., AND R. S. FOSTER. 1974. Barn Owls [*Tyto alba*] feeding on Bank Voles. *Irish Naturalist J.* 18: 55.
- FOLLETT, W. I., AND D. G. AINLEY. 1976. Fishes collected by Pigeon Guillemots, *Cepphus columba* (Pallas), nesting on Southeast Farallon Island, California. *California Fish and Game* 62: 28-31.—Identifies 24 species of fish, mostly benthic forms.—J.J.D.
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- PRATT, H. D. 1976. Field identification of White-faced and Glossy Ibises. Birding 8: 1-5.—Includes an excellent color plate by the author of heads of these dark ibises.—H.W.K.
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- WOOD, N. A. 1975. Habitat preference and behaviour of Crested Coots [*Fulica cristata*] in winter. *Brit. Birds* 68: 116-118.
- YAPP, W. B. 1975. Carrion Crows [*Corvus corone*] taking House Martin [*Delichon urbica*]. *Brit. Birds* 68: 342.

MANAGEMENT AND CONSERVATION

- ARBIB, R. 1976. The last listers. *Birding* 8: 13-14.—A peek into the future and a masterful and not so subtle put-down of the rabid bird lister (a small but vociferous minority) who care nothing about the conservation and environmental welfare of birds and their habitats.—H.W.K.
- GRIMES, L. G. 1973. The potential bird and bat hazards to aircraft in the vicinity of the International Airport at Accra, Ghana. *Ghana J. Sci.* 13: 10-19.
- KEITH, G. S., A. D. FORBES-WATSON, AND D. A. TURNER. 1974. The Madagascar Crested Ibis, a threatened species in an endemic and endangered avifauna. *Wilson Bull.* 86: 197-199.
- PATTON, D. R., AND P. F. FFOLLIOTT. 1975. Selected bibliography of wildlife and habitats for the southwest. U. S. Dept. Agr. Forest Serv. Gen. Tech. Rept. RM-16, 39 pp. Rocky Mountain Forestry and Range Exp. Sta.—Contains 390 references (98 on birds) on research and management of wildlife species and habitats in Arizona and New Mexico from 1913 to early 1975.—L.F.
- SAVIDGE, I. R. 1974. A model for management predictions of territorial bird populations. *Ohio J. Sci.* 74: 301-312.—A mathematical model for comparison of management schemes for birds having a territorial or resource limited breeding organization.—A.S.G.
- SMITH, D. R. (Tech. Coordinator). 1975. Proceedings of the symposium on management of forest and range habitats for nongame birds. U. S. Dept. Agr. Forest Serv. Gen. Tech. Rept. WO-1, 343 pp.—The objective of this symposium was to initiate dialogue between resource managers and avian ecologists. Includes 28 papers presented in 6 sessions: General, birds and their habitat, management of deciduous forest habitats, range habitats, coniferous forest habitats, and nongame birds in current policies and decision making.—L.F.
- SYKES, P. W., AND R. CHANDLER. 1974. Use of artificial nest structures by Everglade Kites. *Wilson Bull.* 86: 282-284.
- WEBSTER, M. 1975. Hong Kong's trade in wildlife. *Hong Kong Bird Report* 1974: 54-60.—Hong Kong is the end-user of a vast commerce in birds, mammals, and herps, chiefly from South China. Though almost impossible to obtain accurate statistics on birds, minimal estimates are mind-boggling! For example 100,000 each (annually) of *Garrulax canorus*, *Leiothrix lutea*, *Zosterops japonica*, and an African *Serinus*; 6000 *Turdus sibiricus*; 300 *Zoothera dauma*; 2000 *Emberiza fucata*; 10,000 individuals of nearly 30 species of raptors, etc. The effect of this trade on the ecology of South China must be substantial, and it is absolutely incredible that China, and especially Britain, permit this trade to flourish.—H.W.K.

MIGRATION AND ORIENTATION

- ALERSTAM, J. 1975. Redwing (*Turdus iliacus*) migration towards southeast over southern Sweden. *Vogelwarte* 28: 2-17.—Radar observations reveal that Redwings (and possibly Fieldfares) migrate on days with following winds.—H.C.M.
- DUNCAN, R., AND L. DUNCAN. 1975. A substantial hawk migration in northwest Florida. *Florida Field Naturalist* 3: 2-4.—Summarizes fall flights near Pensacola, 1972-1974, composed mostly of Broad-wings, *Buteo platypterus*.—J.C.O.
- GATTER, W. 1974. Beobachtungen an Invasionsvögeln des Kleibers (*Sitta*

- europaea caesia*) am Randecker Maar, Schwäbische Alb. Vogelwarte 27: 203-209.—The Nuthatch was not seen as a migrant between 1961 and 1969 at the Randecker Maar, a station in the Swabian Alps. The first Nuthatch was observed in 1970 and by 1972, 40 were seen. The migrations correlate nicely with an increase from 8 to 27 pairs breeding in a study tract in Baden-Württemberg during the same time interval. Both population increases and migration may be correlated with yields of beech mast. (English summary and table and figure legends.)—H.C.M.
- GATTER, W. 1974. Analyse einer Invasion des Eichelhähners (*Garrulus glandarius*) 1972/73 am Randecker Maar (Schwäbische Alb). Vogelwarte 27: 278-289.—Jays have shown irruptive migrations about every fourth year in the past 20 in the Swabian Alps. Details on timing, numbers, and directions of migration. (English summary.)—H.C.M.
- GUNTER, G. 1975. Further information on mass movements of Blue Jays on the Alabama, Mississippi and Louisiana coasts in October 1972. Mississippi Kite No. 6: 4-7.—Review and comments on *Cyanocitta cristata* movements and mortality.—J.A.J.
- GYLLIN, R. 1974. Spring migration of raptors over east Turkey and northwest Iran. Vogelwarte 27: 243-237.—Heavy northward passage; mainly *B. buteo* and *Milvus migrans*.—H.C.M.
- HAAS, W. 1974. Beobachtungen paläarktischer Zugvögel in Sahara und Sahel (Algerian, Mali, Niger). Vogelwarte 27: 194-202.—Observations of palae-arctic migrants in the Sahara desert, including behavior of birds grounded in inhospitable terrain, causes of death of migrants, and new records of some species. (English summary.)—H.C.M.
- HAMERSTROM, F., AND D. DE LA RONDE. 1973. Cruising range and roosts of adult harriers. IBB News 45: 123-127.
- HOLZINGER, J. 1974. Einzug, Überwinterung und Wegzug des Waldwasserläufers (*Tringa ochropus*) in einem suddeutschen Überwinterungsgebiet. Vogelwarte 27: 289-292.—A few Green Sandpipers winter in the Danube valley. Observations of marked birds indicate that they arrive early, leave late, and stay as long as 8.5 months. (English summary.)—H.C.M.
- KALCHREUTER, H. 1974. Über den Zug der Waldschnepfe (*Scolopax rusticola*) nach europäischen Ringfunden. Vogelwarte 27: 153-166.—The migration of the woodcock, based on an analysis of 814 band recoveries. Most birds return to their birthplace, and probably to previously used wintering places. A "loop" migration is suggested. (English summary and figure legends.)—H.C.M.
- KLEIN, H., P. BERTHOLD, AND E. GWINNER. 1973. Der Zug europäischer Garten- und Mönchgrasmücken (*Sylvia borin* und *S. atricapilla*). Vogelwarte 27: 73-134.—A detailed analysis and comparison of the migrations of the Garden Warbler and the Blackcap based on original data from 27 stations involving the captures of 33,000 birds and additional, previously published data from another 23 stations. Directions, timing, variations and changes in timing of migration, origins of birds based on measurements of wing length; differences in timing of migration of the sexes, analysis of banding recoveries are only some of the topics discussed. An excellent job of summarizing a veritable mountain of data gathered in banding operations, yielding considerable insight into many details of the migrations of these two species. (Two-page English summary; English figure and table legends.)—H.C.M.
- KNIGHT, P. J., AND W. J. A. DICK. 1975. Recensement de limicoles au Banc d'Arguin (Mauritanie). Alauda 43: 363-385.—The Oxford and Cambridge Mauritanian Expedition visited the Banc d'Arguin in September-November 1973 to evaluate its importance for migrant shorebirds. A mid-October census suggested the presence of 730,000 birds of 25 species, including 210 *Limosa lapponica*, 190,000 *Calidris alpina*, 130,000 *Calidris canutus*, and 100,000 *Tringa totanus*. For some populations of these species, the Banc d'Arguin thus constitutes an area of great concentration in the Palearctic. Banding results (4841 birds) will be presented elsewhere.—F.V.
- MENDELSON, H. P. 1975. A ring recovery of a Lesser Spotted Eagle [*Aquila pomarina* Viehm]. Koedoe 18: 193.—An adult banded 29 November 1972 in Africa was recovered (presumably dead) on 30 October 1973 in Azerbaijan SSR.—H.W.K.
- REICHOLF, J. 1974. Winterzug des Stars (*Sturmus vulgaris*) in Südost-Bayern. Vogelwarte 27: 248-251.—Observations of a regular midwinter movement of

- Starlings in southeastern Bavaria, where there is no regular over-wintering. (English summary.)—H.C.M.
- SOUTHERN, W. E. 1974. The effects of superimposed magnetic fields on gull orientation. *Wilson Bull.* 86: 256-271.
- SPITZER, G. 1974. Zum Emigrationsverhalten der osteuropäischen Bartmeise (*Panurus biarmicus russicus*). *Vogelwarte* 27: 186-194.—An analysis of recoveries of Bearded Tits banded at the Neusiedler See in eastern Austria. Suggests that the species occasionally shows irruptive, undirected "invasions." (English summary.)—H.C.M.
- TAYLOR, W. K., AND B. H. ANDERSON. 1974. Nocturnal migrants killed at a central Florida T.V. tower, autumn, 1972. *Florida Field Naturalist* 2: 40-43.—1347 individuals of 49 species.—J.C.O.
- TEMME, M. 1974. Zugbewegungen der Eiderente (*Somateria mollissima*) vor der Insel Norderney unter besonderer Berücksichtigung der Wetterverhältnisse. *Vogelwarte* 27: 252-263.—Four years of observations of Common Eider migrations on the East Friesland coast and correlations with weather conditions. (English summary.)—H.C.M.
- WINKEL, W. 1974. Über Verfrachtungen von Kohl- und Blaumeisen (*Parus major* und *P. caeruleus*) ausserhalb der Brutzeit im nordwestdeutschen Küstenraum. *Vogelwarte* 27: 264-278.—Great Tits (194) and Blue Tits (45) were captured and released at distances of 6 to 24 km. Established adults homed better than young birds. (English summary.)—H.C.M.

MISCELLANEOUS

- BERGEGREN, G., AND C. ELDERUD. 1975. Lake Tåkern Ecological Station—a presentation. *Vår Fågelvärld* 34: 264-267.—The station is operated by a nonprofit nature society to promote knowledge and understanding of nature preservation and habitat management. (English summary.)—L.deK.L.
- CLARKE, H. 1974. What camera (and equipment) for bird pictures? *Birding* 6: 161-165.—General guidelines about basic equipment.—H.W.K.
- DOWSETT, R. J. 1973. Jali Makawa—a profile. *Zambia Mus. J.* 4: 39-42.—An account of the field work and collecting done by Mr. Makawa in many parts of Africa, for many years with C. W. Benson and later with the Zambian Game Department and the Livingstone Museum.—M.L.
- DUNSTAN, T. C. 1973. A tail feather package for radio-tagging raptorial birds. *IBB News* 45: 6-10.
- FITZSIMONS, M. 1975. Lucy Bakewell Audubon. *Atlantic Naturalist* 30: 102-106.—A brief sketch of the famous artist's wife.—H.W.K.
- GILLIS, W. T., R. BYRNE, AND W. HARRISON. 1975. Bibliography of the natural history of the Bahama Islands. *Atoll Res. Bull.* No. 191, 123 pp.—Includes 83 ornithological titles published between 1859 and 1973.—H.W.K.
- HARDY, J. W., AND T. WEBBER. 1975. A critical list of type specimens of birds in the Moore Laboratory of Zoology at Occidental College. *Nat. Hist. Mus. Los Angeles Co. Contrib. Sci.* No. 273, 25 pp.—Lists holotypes, paratypes, and some topotypes of 70 species and 4 subspecies by catalogue number, and reassesses validity of the taxa. Includes locality data and a map of type localities.—H.H.
- HUBBARD, J. P. 1973. Identification of parakeets in Delaware. *Delmarva Ornithol.* 8: 22-23.—Treats *Melospittacus undulatus*, *Protegeris versicoloris*, *Aratinga canicularis*, and *Myiopsitta monachus*.—D.M.N.
- JOHNSON, E. 1973. A device to hold birds for photographic purposes. *IBB News* 45: 128-131.
- LEBERMAN, R. C., AND M. H. CLENCH. 1975. Bird-banding at Powdermill, 1974. *Carnegie Mus. Nat. Hist. Powdermill Nature Reserve Rept.* No. 35.—Reports on species banded, returns, recoveries, age records, and comments on breeding and migrating populations in the Ligonier Valley of the western Alleghenies.—H.W.K.
- SAPPINGTON, J. N., AND J. A. JACKSON. 1973. A technique for mist netting birds at communal roosts. *IBB News* 45: 102-106.

- SCHUZ, E. 1973. Hugo Weigold 1886-1973. Vogelwarte 27: 141-145.—Obituary of the founder of the Vogelwarte Helgoland.—H.C.M.
- SINDERSON, S. W., JR. 1975. Making your own parabolic reflector for sound recording. *Birding* 7: 1-3.
- STEVENS, H. M. 1974. Singing female Orchard Oriole: A word of caution in identifications. *Florida Field Naturalist* 1: 37-38.—Song has a strong similarity to that of Warbling Vireo. Observers in breeding range of the oriole should be careful in basing identification of this vireo chiefly on song.—H.W.K.
- SVENSSON, L. 1975. Little Bunting *Emberiza pusilla* and female Reed Bunting *E. schoeniclus*—the problem of field identification. *Vår Fågelvärld* 34: 311-318.—(English summary.)—L.deK.L.
- WILBUR, S. R. 1974. California Condor specimens in collections. *Wilson Bull.* 86: 71-72.
- WISEMAN, A. J. 1973. Homemade gadgets for the handyman bander. *IBB News* 45: 26-28.—How to make band holders, banding pliers, holding cages, and other banding aids.—D.M.F.

PHYSIOLOGY

- ANDERSON, W. L., AND R. F. LABISKY. 1974. Selected physiological response of pheasants to minerals in corn. *Condor* 76: 109-112.
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TAXONOMY AND PALEONTOLOGY

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