

chambers with one-way glass for behavioral studies, and a well-equipped laboratory for the analysis as related to locomotion through high speed cinematography, electromyography, histochemistry and motor unit isolation. The library houses a good collection of ornithological books and periodicals. A modest but growing collection of birds from northern Arizona is curated in the Northern Arizona University Vertebrate Museum.

Although somewhat isolated from the centers of learning in the east and west, a viable speakers program including a number of ornithologists has been initiated. Speakers have come from throughout the U.S., Canada, Germany and Australia.

On-campus research support is unusually good at Northern Arizona University. The physics department, with a research program in atmospheric physics, has been helpful in supplying data to the field ornithologists. The mathematics department not only offers an excellent assortment of appropriate statistics courses but employs statisticians sympathetic to the needs of the avian biologist.

Members of the department of forestry have provided valuable assistance and data for field studies.

The Department of Biological Sciences has formal ties and/or working relationships in areas of avian biology with a number of agencies. A Rocky Mountain Forest and Range Experimental Station is located on campus and is staffed by many excellent ecologists. The Museum of Northern Arizona is located in Flagstaff, maintains an active research program in avian ecology, and has a valuable collection of birds. The research facilities of the museum are available to qualified graduate students on a cooperative basis.

The graduate students and faculty of Northern Arizona University have access to natural stands of ponderosa pine forest containing a full complement of bird species, including Golden Eagles, within walking distance of the campus. This is a rather remarkable situation in these times of rampant habitat destruction and urbanization.

## Recent and forthcoming books

**A Guide to Bird-Watching in Europe.** — Ed. James Ferguson-Lees, Quentin Hockliffe & Ko Zeeres. Charles Scribner's & Sons, New York, 1976. 336 pp. Distribution table, maps, drawings \$9.95. A country-by-country guide to birdfinding in all of Europe east of the U.S.S.R., with chapters largely written by local experts. The emphasis is on the birdlife of areas and regions, with not much specific information on precisely where and when to go, how to get there, where to stay, etc. There is also information on organizations, periodicals, and bird banding offices. Undoubtedly a useful one-volume pocket guide; somehow it leaves us with the feeling that it could have been much better.

**Atlas of Eastern Canadian Seabirds.** — R G B. Brown, D.N. Nettleship, P. Germain, C E Tull, and T. Davis. Canadian Wildlife Service, Ottawa, 1975. 220 pp. Tables, maps. Softcover. \$6.75 Canada; \$8.10 U.S. A fine compilation of maps resulting from several years' field work, of the seabirds of eastern Canada, from west of 40°W and north of 40°N. Thirty-nine species are treated; for many there are several maps, for the Northern Fulmar, for example, there are sixteen. There are chapters on the map-

ping methods, the oceanography, factors influencing breeding ranges, seabird vulnerabilities, and a bibliography.

**Audubon, The Kentucky Years.** — L. Clark Keating. Univ. Press of Kentucky, Lexington 1x + 92 pp. \$3.95. A volume of the Kentucky Bicentennial Bookshelf. An account of the naturalist's years (1807-1819) in Kentucky, a period when Audubon's painting conflicted disastrously with his efforts to make a living as a businessman. Competent retelling, entertaining.

**Birds of the Antarctic and Sub-Antarctic** — George E. Watson. Ill. Bob Hines. American Geophysical Union, Washington, D.C. 1975 xviii + 350 pp., 11 color plates, many drawings, maps. \$15. Although of field guide size and usefulness, this admirable volume is truly a handbook of the bird life of the seas, lands, and islands south of 55°S, as well as the ocean islands north to 37°S. Introductory chapters give an excellent synopsis of the avifauna and environment of the region, with tables on zonal distribution and differentiation. The species accounts are exemplary: most include a distribution map. A

detailed section of geographic accounts and extensive reference lists are appended. Our only suggestions for improvement would be the inclusion of a far more detailed overall map, and a wish that the color plates were not so crowded. A worthy addition to any bird library.

**Birds of the Rosetown-Biggarr District, Saskatchewan.** — Wayne E. Renaud and Don H. Renaud. Spec. Publ. 9., Sask. Nat. Hist. Society. Regina. 1975. 120 pp. paperbound. \$4.00 (Can.) A study, including a detailed annotated list, of the bird life of this 1500 square mile area in west central Saskatchewan. The list includes 236 species.

**Breeding Birds of North Dakota.** — Robert E. Stewart. Tri-College Center for Environmental Studies, Fargo, N.D. 1975. 295 pp. Ill. photographs, maps, color plates by Roger T. Peterson and Walter A. Weber. \$18.50. An important regional study, the result of countless hours of field surveys and research in every corner of North Dakota. The text includes chapters on the environmental attributes of the state, the environmental relationships of breeding birds, 196 species accounts (each with breeding range, habitat, nesting details, and a large, clear map). Bibliography. The photographs by John T. Lokemoen of habitats and Ed Bry of birds add interest: the color plates of birds might well have been omitted.

**Birds of Prey.** — Michael Everett. G.P. Putnam's Sons, New York, 1976. 128 pp. \$12.95. Written in England, printed in Italy, filled with superb color photographs, this glossy quarto-size book is a competent survey of the Order Falconiformes. The owls are not included. Chapters progress from evolution to species descriptions, through biology, life cycle and migration to conservation and the future. There is a species list and bibliography.

**Handbook of the Birds of India and Pakistan** — Vol. 10. Flowerpeckers to Buntings. Salim Ali and S. Dillon Ripley. Oxford Univ. Press, New York 1976. xvi + 334 pp. Ill. 12 color plates, maps, drawings. \$20.00. The final volume in this monumental series, it completes the text, comprising 1200 species accounts in all, with 113 color plates, and hundreds of maps. The present volume includes comprehensive indices of scientific and vernacular names and an extensive

bibliography. Indispensable to the student of the avifauna of this region, or in fact of the world

**Pine Crossbills.** — Desmond Nethersole-Thompson. T. & A.D. Poyser, Ltd. 281 High St., Berkhamsted, England. 1975. 256 pp. Ill., drawings, photographs, maps. £ 5. An example of the species monograph as it should be written. Articulate, literate, the cumulative result of 40 years of the author's investigations in northern Scotland, this is a definitive study by one of Britain's leading ornithologists. The species, of course, is *Loxia curvirostra*, our Red Crossbill, although the Scottish population is here designated *L.c. scotica*, a form that differs slightly from both the widespread nominate race and the northern Palearctic Parrot Crossbill, *L. pytyopsittacus*. (Theorizing on the origins of *scotica* provides a fascinating first chapter). Highly recommended, but available now only from Poyser, a promising newcomer to bird book publishing

**The Birds of Manitoba.** — Ernest E. Thompson (Ernest Thompson Seton). Smithsonian Institution, 1891. Reprint, Premium Ventures, Ltd., Winnipeg. 1975. Introduction by Robert W. Nero. 188 pp. \$5.00 postpaid. Graced with the stylish writing the author is known for, and giving a comprehensive picture of the avifauna of the province 85 years ago, this photolithographic reproduction is of great historic interest. It was issued to mark the second meeting of the A.O.U. in western Canada (Winnipeg, 1975) and is in very limited (1000 copies) supply

**The Life of Birds, 2nd Edition.** — Joel Carl Welty. W.B. Saunders Co., Philadelphia. 1975 xv + 623 pp. The 1962 edition, expanded, revised, and updated. Probably the most comprehensive, well-written and readable one volume college level text in ornithology today. If you have space on your shelves for only one such text, this would be our choice. The author states that since the first edition (1962) he has read over 6000 articles on birds to add to the 8000 he had previously read. A really beautifully organized and illustrated book.

**The View from Great Gull.** — Michael Harwood. E.P. Dutton & Co., New York. May, 1976. Ill. map, drawings by R.E. Harrison. ix + 137 pp. \$8.95. An informal history of 17-acre Great Gull Island, New York, from colonial days

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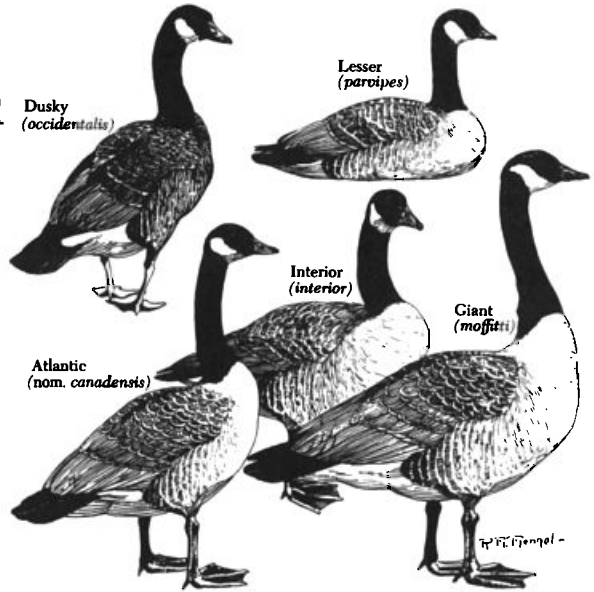
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through U.S. Army occupation to the present. Emphasis is on the research being carried out by members of the Linnaean Society of New York and others on the now-thriving colony of Common and Roseate Terns: research that has resulted in more than 40 papers and reports. Exceptionally well written.

**Wonders of the Pelican World.** — Joseph J. Cook and Ralph W. Schreiber. Dodd, Mead & Co., New York, 1974. 64 pp. Ill. photos. \$4.95. Schreiber comments, "Everything I know about pelicans written in a general way." The Florida Brown Pelican is the subject: the level seems about junior high school, and like the book below, it is well-written. Both are available from Seabird Research, Inc., 11008 Teegreen Dr., Tampa, FL 33612.

**Wonders of Sea Gulls.** — Elizabeth Anne and Ralph W. Schreiber. Dodd, Mead & Co., New York, 1975. 80 pp. Ill. photos. \$4.95. Another addition to the long list of Dodd, Mead Wonders Books, apparently aimed at about junior high school level. A well-produced introduction to the

gulls, their characteristics and behavior. Describes some common North American species and touches on man/gull relationships.

**Also received.**

**Geographic and Climatic Relationships of Avifaunas with Special Reference to Comparative Distribution in the Neotropics.** — Paul Slud. Smithsonian Contributions to Zoology, Number 212. 1976. iii + 149 pp.

**Ecological Succession of Breeding Birds in Relation to Plant Succession on Dredge Islands in North Carolina.** — Robert F. Soots, Jr., and James F. Parnell. N.C. State Univ., Raleigh. 1975. 91 pp. paperbound.

**Evolution Illustrated by Waterfowl.** — David Lack. Harper & Row, New York. Ill. Robert Gillmor. 1974. 96 pp. \$0.00. Undergraduate text, ably presented.

— R.A.

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