THE WILSON BULLETIN

Editor JON C. BARLOW

Department of Ornithology Royal Ontario Museum 100 Oueen's Park

Toronto, Ontario, Canada M5S 2C6

Assistant Editor MARGARET L. MAY

Senior Editorial Assistants GARY BORTOLOTTI

NANCY FLOOD

Editorial Assistants KEITH L. BILDSTEIN

C. DAVISON ANKNEY

RICHARD R. SNELL

JAMES D. RISING

Review Editor ROBERT RAIKOW Color Plate Editor WILLIAM A. LUNK

Department of Biological Sci-

865 North Wagner Road Ann Arbor, MI 48103

ences

University of Pittsburgh Pittsburgh, PA 15260

Suggestions to Authors

See Wilson Bulletin, 87:144, 1975 for more detailed "Suggestions to Authors." Manuscripts intended for publication in The Wilson Bulletin should be submitted in triplicate, neatly typewritten, double-spaced, with at least 3 cm margins, and on one side only of good quality white paper. Do not submit xerographic copies that are made on slick, heavy paper. Tables should be typed on separate sheets, and should be narrow and deep rather than wide and shallow. Follow the AOU Check-list (Fifth Edition, 1957) and the 32nd Supplement (Auk, 90:411-419, 1973), insofar as scientific names of U.S. and Canadian birds are concerned. Summaries of major papers should be brief but quotable. Where fewer than 5 papers are cited, the citations may be included in the text. All citations in "General Notes" should be included in the text. Follow carefully the style used in this issue in listing the literature cited; otherwise, follow the "CBE Style Manual" (1972, AIBS). Photographs for illustrations should have good contrast and be on gloss paper. Submit prints unmounted and attach to each a brief but adequate legend. Do not write heavily on the backs of photographs. Diagrams and line drawings should be in black ink and their lettering large enough to permit reduction. Original figures or photographs submitted must be smaller than 22 × 28 cm. Alterations in copy after the type has been set must be charged to the author.

NOTICE OF CHANGE OF ADDRESS

If your address changes, notify the Society immediately. Send your complete new address to Ornithological Societies of North America, % Sandra L. L. Gaunt, Box 21160, Columbus, Ohio 43221.

The permanent mailing address of the Wilson Ornithological Society is: c/o The Museum of Zoology, The University of Michigan, Ann Arbor, Michigan 48109. Persons having business with any of the officers may address them at their various addresses given on the back of the front cover, and all matters pertaining to the Bulletin should be sent directly to the Editor.

MEMBERSHIP INQUIRIES

Membership inquiries should be sent to Dr. Robert C. Whitmore, Division of Forestry, West Virginia University, Morgantown, West Virginia 26506.

CONTENTS

OBSERVATIONS OF SEABIRDS DURING A CRUISE FROM BOSS ISLAND TO ANVERS ISLAND, ANT- ARCTICA	1
DISPLAY BEHAVIOR OF OVENBIRDS (Seiurus aurocapillus) II. SONG VARIATION AND SINGING BEHAVIOR	21
THE MAYFIELD METHOD OF ESTIMATING NESTING SUCCESS: A MODEL, ESTIMATORS AND SIMU- LATION RESULTS	42
NARROWLY DISJUNCT ALLOPATRY BETWEEN BLACK-CAPPED AND CAROLINA CHICKADEES IN NORTHERN INDIANA	54
TOE FUSION IN OSCINES	67
ENVIRONMENTAL EFFECTS ON ROOSTING BEHAVIOR OF CHIMNEY SWIFTS $Richard\ M.\ Zammuto\ and\ Edwin\ C.\ Franks$	77
GENERAL NOTES	
OBSERVATION OF A BROOD OF SHARP-SHINNED HAWKS IN ONTARIO, WITH COMMENTS ON THE FUNCTIONS OF SEXUAL DIMORPHISM Helmut C. Mueller, Nancy S. Mueller and Patricia G. Parker	85
FOOD DEPRIVATION AND TEMPERATURE REGULATION IN NESTLING FERRUGINOUS HAWKS	00
Diana F. Tomback and Joseph R. Murphy AERIAL "PLAY" OF BLACK VULTURES	92
AERIAL "PLAY" OF BLACK VULTURES	97
THE SHOULDER-SPOT DISPLAY IN RUFFED GROUSE	98
THE AGONISTIC REPERTOIRE OF SANDHILL CRANES	99
Stephen A. Nesbitt and George W. Archibald	103
NOTES ON THE SLENDER ANTBIRD Edwin O. Willis and Yoshika Oniki	103
NOTES ON THE UNIFORM CRAKE IN COSTA RICA	107
TRICHOMONIASIS IN BALD EAGLES	109
Scott Crocoll and James W. Parker	110
HERRING GULL ATTACKS AND EATS ADULT MALE OLDSQUAW	110
RED-LEGGED KITTIWAKES FORAGE IN MIXED-SPECIES FLOCKS IN SOUTHEASTERN ALAS-	
KA Douglas Siegel-Causey and Thomas E. Meehan	111
GROUND-FEEDING METHODS AND NICHE SEPARATION IN THRUSHES	112
Warner P. Gorenzel, Ronald A. Ryder and Clait E. Braun	115
REPRODUCTIVE RATE AND RENESTING OF RED-WINGED BLACKBIRDS IN MINNESOTA Daniel W. Moulton	119
MIGRATION SPEEDS OF THREE WATERFOWL SPECIES	
Frank C. Bellrose and Robert C. Crompton	121
ORNITHOLOGICAL LITERATURE	125
ORNITHOLOGICAL NEWS	135