

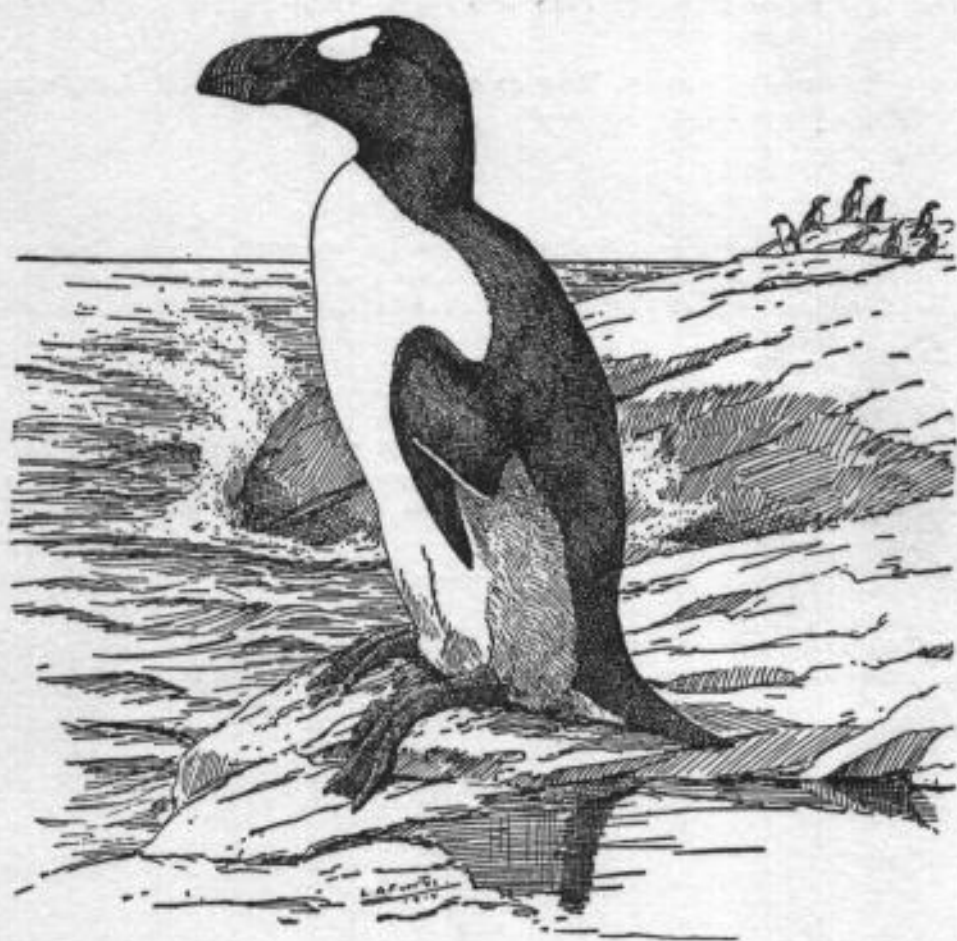
# The Auk

*A Quarterly Journal of Ornithology*

Vol. 81

OCTOBER, 1964

No. 4



PUBLISHED BY  
THE AMERICAN ORNITHOLOGISTS' UNION

# THE AMERICAN ORNITHOLOGISTS' UNION

(FOUNDED 1883)

## OFFICERS

FOR 1964-65

*President:* DEAN AMADON, The American Museum of Natural History, Central Park West at 79th Street, New York 24, New York.

*First Vice-President:* OLIVER L. AUSTIN, JR., Florida State Museum, Gainesville, Florida.

*Second Vice-President:* HAROLD F. MAYFIELD, River Road, R.F.D., Waterville, Ohio.

*Editor of "The Auk":* ROBERT M. MENGEL, Museum of Natural History, The University of Kansas, Lawrence, Kansas.

*Secretary:* L. RICHARD MEWALDT, Dept. of Biological Sciences, San Jose State College, San Jose, California.

*Treasurer:* ROBERT J. NEWMAN, Museum of Zoology, Drawer MU, Louisiana State University, Baton Rouge, Louisiana

All persons interested in ornithology are invited to apply to the Treasurer for Membership in The American Ornithologists' Union. Dues for Members are \$5.00 per year. *The Auk* is sent without charge to all classes of members not in arrears for dues.

---

Send changes of address, claims for undelivered or defective copies of *The Auk*, and requests for information relative to advertising, subscriptions, back numbers of *The Auk*, as well as for other publications of the Union, to the Treasurer.

---

All articles and notes submitted for publication and all books and publications intended for review should be sent to the Editor (see inside back cover).

Published quarterly (January, April, July, and October) by The American Ornithologists' Union. Business office: Robert J. Newman, Treasurer, Museum of Zoology, Drawer MU, Louisiana State University, Baton Rouge, Louisiana 70803. Subscription: \$6.00 per year. Printed by The Allen Press, Lawrence, Kansas, U.S.A. Second-class postage paid at Lawrence, Kansas, U.S.A.

# The Auk

*A Quarterly Journal of Ornithology*

EDITOR

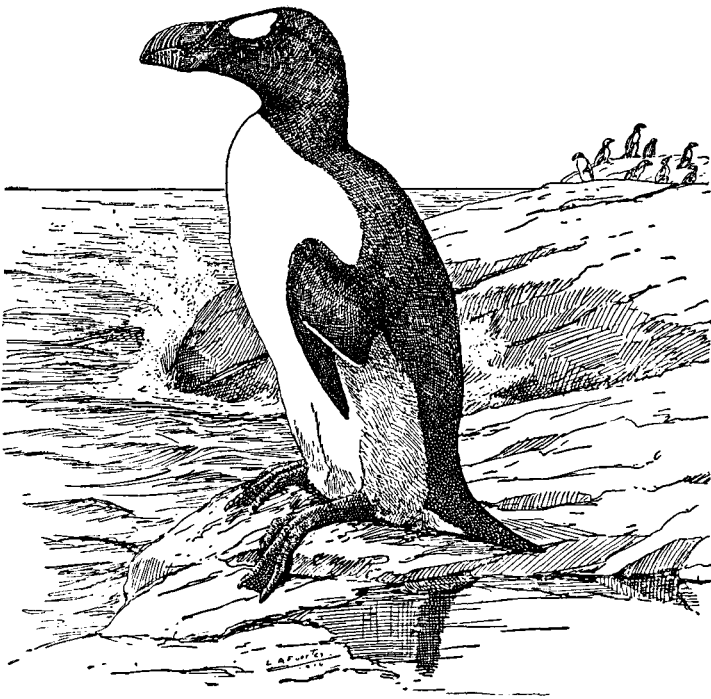
ROBERT M. MENGEL

ASSISTANT EDITOR

J. KNOX JONES, JR.

EDITORIAL ASSISTANTS

ERWIN E. KLAAS, LINDA T. KLAAS, GARY C. PACKARD



**VOLUME 81**

---

PUBLISHED BY

The American Ornithologists' Union

1964

DATES OF ISSUE OF "THE AUK"

VOL. 81, No. 1—31 JANUARY 1964

VOL. 81, No. 2—30 APRIL 1964

VOL. 81, No. 3—22 JULY 1964

VOL. 81, No. 4—28 OCTOBER 1964

# CONTENTS OF VOLUME 81

## NUMBER 1

<i>SERICORNIS NIGROVIRIDIS</i> MILLER .....	frontispiece, facing p.	1
A NEW SPECIES OF WARBLER FROM NEW GUINEA. <i>Alden H. Miller</i> ...		1
LIFE HISTORIES OF HERMIT HUMMINGBIRDS. <i>Alexander F. Skutch</i> ...		5
RELATION OF OXYGEN CONSUMPTION TO TEMPERATURE IN THE RED AND WHITE-WINGED CROSSBILLS. <i>William R. Dawson and Harrison B. Tordoff</i> .....		26
IN MEMORIAM: CHARLES WILLIAM BEEBE. <i>Lee S. Crandall</i> .....		36
THE DEVELOPMENT OF NEST-BUILDING BEHAVIOR IN A WEAVERBIRD. <i>Elsie C. Collias and Nicholas E. Collias</i> .....		42
EXPERIMENTS ON SPECIES DISCRIMINATION IN BLUE-WINGED War- BLERS. <i>Frank B. Gill and Wesley E. Lanyon</i> .....		53
THE SPECIFIC DISTINCTNESS OF THE GREATER AND LESSER PRAIRIE CHICKENS. <i>Robert E. Jones</i> .....		65
THE DECLINE AND PRESENT STATUS OF THE IMPERIAL WOODPECKER OF MEXICO. <i>James T. Tanner</i> .....		74
GENERAL NOTES		
Ecology of the Budgerigah. <i>Mrs. Ray Rothwell and Dean Amadon</i> .....		82
Displays of the Buff-breasted Sandpiper at Norman, Oklahoma. <i>Lewis W. Oring</i> .....		83
American Widgeon and Shoveler breeding in Vermont. <i>Robert W. Fuller and Neil E. King</i> .....		86
Egg moving by incubating ducks. <i>Lewis W. Oring</i> .....		88
Swaying display of a female Bell's Vireo. <i>Jon C. Barlow</i> .....		89
Golden Eagle nesting in Ontario. <i>Harry G. Lumsden</i> .....		91
Wing-flashing in the Red-backed Scrub-robin, <i>Erythropygia zambesiana</i> . <i>Burt L. Monroe, Jr.</i> .....		91
<i>Icterus bullockii</i> in Massachusetts. <i>Dorothy E. Snyder</i> .....		92
Further observations on the regulation of the annual testicular cycle in Bobolinks ( <i>Dolichonyx oryzivorus</i> ). <i>William L. Engels</i> .....		95
Nesting of Worm-eating Warbler and Slate-colored Junco in eastern Mas- sachusetts. <i>Charlotte E. Smith</i> .....		96
REVIEWS. <i>Edited by Kenneth C. Parkes</i> .....		98
RECENT LITERATURE. <i>Edited by John William Hardy</i> .....		108
NOTES AND NEWS .....		122
CORRIGENDA .....		124

NUMBER 2

WETMORETHRAUPIS STERRHOPTERON .....	frontispiece, facing p. 125
A NEW GENUS AND SPECIES OF TANAGER FROM PERU. <i>George H. Lowery, Jr., and John P. O'Neill</i> .....	125
INDIVIDUAL EXPERIENCE AS A FACTOR IN THE NAVIGATION OF MANX SHEARWATERS. <i>G. V. T. Matthews</i> .....	132
DISCOVERY OF BREEDING BLACK-CAPPED PETRELS ON HISPANIOLA. <i>David B. Wingate</i> .....	147
THE EFFECT OF SALT INTAKE ON THE SIZE AND FUNCTION OF THE SALT GLAND OF DUCKS. <i>Knut Schmidt-Nielsen and Yoon T. Kim</i> ....	160
SOME FACTORS IN THE DECLINE OF THE OSPREY IN CONNECTICUT. <i>Peter L. Ames and Gerald S. Mersereau</i> .....	173
BIOLOGICAL AND OOLOGICAL STUDIES OF THE MOLOTHRINE COWBIRDS (ICTERIDAE) OF ARGENTINA. <i>Gunnar Hoy and Johann Ottow</i> ...	186
PROCEEDINGS OF THE EIGHTY-FIRST STATED MEETING OF THE AMERICAN ORNITHOLOGISTS' UNION. <i>Lawrence H. Walkinshaw, Secretary</i> .....	204
GENERAL NOTES	
Observations on the day-old young of the Spectacled Eider, <i>Somateria fischeri</i> . <i>Colleen Helgeson Nelson</i> .....	219
Flycatching by Wandering Tattlers ( <i>Heteroscélus incanum</i> ). <i>Robert T. Orr</i> ..	221
The type locality of <i>Allapetes albinucha</i> . <i>Raymond A. Paynter, Jr.</i> .....	223
A nesting of the Purple Gallinule ( <i>Porphyryla martinica</i> ) in Ohio. <i>Milton B. Trautman and Samuel J. Glines</i> .....	224
Breeding of the Purple Gallinule in Illinois. <i>G. P. Waldbauer and J. Hayes</i> ..	227
First United States record for the Slate-throated Redstart, and first specimens of various species for New Mexico. <i>Bruce K. Harris</i> .....	227
First records of the White-tailed Kite for El Salvador and Alabama. <i>Merriam L. Miles</i> .....	229
White-tailed Kite in Nicaragua. <i>James Bond</i> .....	230
Nest and eggs of the Cabanis Tiger Heron in Chiapas, Mexico. <i>Walter Dawn</i> .....	230
Description of a race of the Double-striped Thick-knee (Aves, family Burhinidae) from Colombia. <i>Alexander Wetmore and J. I. Borrero H.</i> .....	231
Male Mourning Dove rears young unaided. <i>W. Reid Goforth</i> .....	233
Third United States record of the Black-faced Grassquit ( <i>Tiaris bicolor</i> ). <i>M. Ralph Browning</i> .....	233
REVIEWS. <i>Edited by Kenneth C. Parkes</i> .....	234
SPECIAL REVIEW: RUSSIAN ORNITHOLOGICAL LITERATURE. <i>Charles Vaurie</i> .....	238

RECENT LITERATURE. <i>Edited by John William Hardy</i> .....	242
NOTES AND NEWS .....	255
OBITUARY .....	256

---

NUMBER 3

NOTES ON THE HARPY EAGLE IN BRITISH GUIANA. <i>James M. Fowler and James B. Cope</i> .....	257
YEARLY FLUCTUATIONS IN A POPULATION OF PURPLE MARTINS. <i>Harold Mayfield</i> .....	274
COLD-HARDINESS OF THE NEWLY HATCHED YOUNG IN RELATION TO ECOLOGY AND DISTRIBUTION IN TEN SPECIES OF EUROPEAN DUCKS. <i>Jukka Koskimies and Lauri Lahti</i> .....	281
THE STATUS OF FRANTZIUS' NIGHTINGALE THRUSH. <i>J. Stuart Rowley and Robert T. Orr</i> .....	308
SOME EFFECTS OF PROLACTIN ON REPRODUCTIVE BEHAVIOR IN THE BROWN-HEADED COWBIRD ( <i>MOLOTHRUS ATER</i> ). <i>Gerald G. Robinson and Dwain W. Warner</i> .....	315
IN MEMORIAM: ROBERT THOMAS MOORE. <i>Herbert Friedmann</i> .....	326
A STUDY OF THE PRAIRIE FALCON IN THE CENTRAL ROCKY MOUNTAIN REGION. <i>James H. Enderson</i> .....	332
OCCURRENCE AND MIGRATION OF CERTAIN BIRDS IN SOUTHWESTERN CALIFORNIA. <i>R. Guy McCaskie and Richard C. Banks</i> .....	353
BREEDING BEHAVIOR AND TAXONOMIC RELATIONSHIPS OF THE CURLEW SANDPIPER. <i>Richard T. Holmes and Frank A. Pitelka</i> .....	362
A PRELIMINARY STUDY OF THE SURVIVAL VALUE OF A FUNCTIONAL SALT GLAND IN PRAIRIE ANATIDAE. <i>F. G. Cooch</i> .....	380
BEHAVIOR OF CAPTIVE SOUTH AMERICAN COWBIRDS. <i>Robert K. Selander</i> .....	394
THE USE OF D <sub>2</sub> O <sup>18</sup> FOR MEASURING ENERGY METABOLISM IN <i>COLUMBA LIVIA</i> AT REST AND IN FLIGHT. <i>Eugene A. LeFebvre</i> .....	403
REPORT OF THE COMMITTEE ON BIRD PROTECTION, 1963 .....	417
REPORT OF THE RESEARCH COMMITTEE FOR 1962-63 .....	426
GENERAL NOTES	
Extra helpers feeding young of Blue-winged and Golden-winged warblers. <i>Lester L. Short, Jr.</i> .....	428
Notes on the Horned Larks of western Minnesota and the Great Plains. <i>Robert W. Dickerman</i> .....	430

Rufous-necked Sandpiper, <i>Erolia ruficollis</i> , in northeastern Ohio. <i>Jon Ahlquist</i> .....	432
A specimen of Fuertes' Oriole, <i>Icterus fuertesi</i> , from Texas. <i>Robert W. Dickerman</i> .....	433
Red-billed Tropicbird on Long Island, New York. <i>John L. Bull</i> .....	433
<i>Tyrannus melancholicus</i> using a partially domed nest. <i>George L. Hunt, Jr.</i> .....	434
Red-tailed Hawk preys on black-tailed rattlesnake. <i>Roger D. Johnson</i> .....	435
A specimen of the Roadside Hawk, <i>Buteo magnirostris griseocauda</i> , from Texas. <i>Milton B. Trautman</i> .....	435
Birds associating with ungulates. <i>Constantine W. Benson</i> .....	436
Birds associated with elephants and hippopotamuses. <i>A. Landsborough Thomson</i> .....	436
Fulmar taken in Virginia. <i>Paul W. Sykes, Jr.</i> .....	437
A congenitally one-legged cowbird. <i>Reginald D. Manwell</i> .....	438
First House Finch collected in North Carolina. <i>Eloise Fretz Potter</i> .....	439
Notes on the birds of Webb County, Texas. <i>Lewis W. Oring</i> .....	440
Waterfowl wintering in the Marshall Islands, southwest Pacific Ocean. <i>Charles F. Yocom</i> .....	441
Activities of a Mallard ( <i>Anas platyrhynchos</i> ) brood after hatching. <i>A. de Vos</i> .....	442
Some records from Bermuda affecting the A.O.U. Check-list. <i>David B. Wingate</i> .....	442
Ancient Murrelet taken in Illinois. <i>Terry Balding</i> .....	443
REVIEWS. <i>Edited by Kenneth C. Parkes</i> .....	444
SPECIAL REVIEW: MR. TODD AND THE BIRDS OF LABRADOR. <i>Oliver L. Austin, Jr.</i> .....	461
RECENT LITERATURE. <i>Edited by John William Hardy</i> .....	465
NOTES AND NEWS .....	476
CORRIGENDA .....	477

---

#### NUMBER 4

HYBRIDIZATION IN THE RED-EYED TOWHEES OF MEXICO: THE POPULATIONS OF THE SOUTHEASTERN PLATEAU REGION. <i>Charles G. Sibley and Fred C. Sibley</i> .....	479
EFFECT OF AGE, SEX, AND LEVEL OF FAT DEPOSITION ON MAJOR BODY COMPONENTS IN SOME WOOD WARBLERS. <i>David T. Rogers, Jr., and Eugene P. Odum</i> .....	505
THE BIRDS OF THE TRES MARIETAS ISLANDS, NAYARIT, MEXICO. <i>P. R. Grant</i> .....	514



THE RELATIONS OF BREEDING YELLOW-BELLIED SAPSUCKERS TO WOUNDED BIRCHES AND OTHER TREES. <i>Lawrence Kilham</i> .....	520
SOME EFFECTS OF NEUTRON-GAMMA RADIATION ON LATE SUMMER BIRD POPULATIONS. <i>Jay H. Schnell</i> .....	528
SPATIAL SEPARATION OF SEXES IN ROCK AND WILLOW PTARMIGAN IN WINTER. <i>Robert B. Weeden</i> .....	534
SEASONAL CHANGES IN THE COLOR OF STARLING BILLS. <i>Richard S. Wydoski</i> .....	542
GENERAL NOTES	
Albinism in the Herring Gull. <i>Alfred O. Gross</i> .....	551
An additional record of the Yellow-billed Tropicbird ( <i>Phaethon lepturus calesbyi</i> ) from Pennsylvania. <i>Gorman M. Bond</i> .....	552
Nesting of the Blue-gray Gnatcatcher on Long Island, New York. <i>Gilbert S. Raynor</i> .....	552
New records of Cattle Egrets in Perú. <i>Frank P. Frazier, Jr.</i> .....	553
Fatal entanglements of Herring Gulls ( <i>Larus argentatus</i> ) and Common Terns ( <i>Sterna hirundo</i> ). <i>Walter P. Nickell</i> .....	555
Diving times of wintering water birds. <i>Douglas D. Dow</i> .....	556
Observations on the Spotted Rail and Pinnated Bittern in Costa Rica. <i>Dale E. Birkenholz and Donald A. Jenni</i> .....	558
A record of the Chestnut-collared Longspur in Florida. <i>Henry M. Stevenson</i>	559
Two albino Herring Gulls found at Rogers City, Michigan. <i>Walter P. Nickell</i> .....	560
REVIEWS. <i>Edited by Kenneth C. Parkes</i> .....	561
RECENT LITERATURE. <i>Edited by John William Hardy</i> .....	572
NOTES AND NEWS .....	585
OBITUARIES .....	586
INDEX TO VOLUME 81. <i>Compiled by L. R. Wolfe</i> .....	587
1964 MEMBERSHIP LIST .....	i