

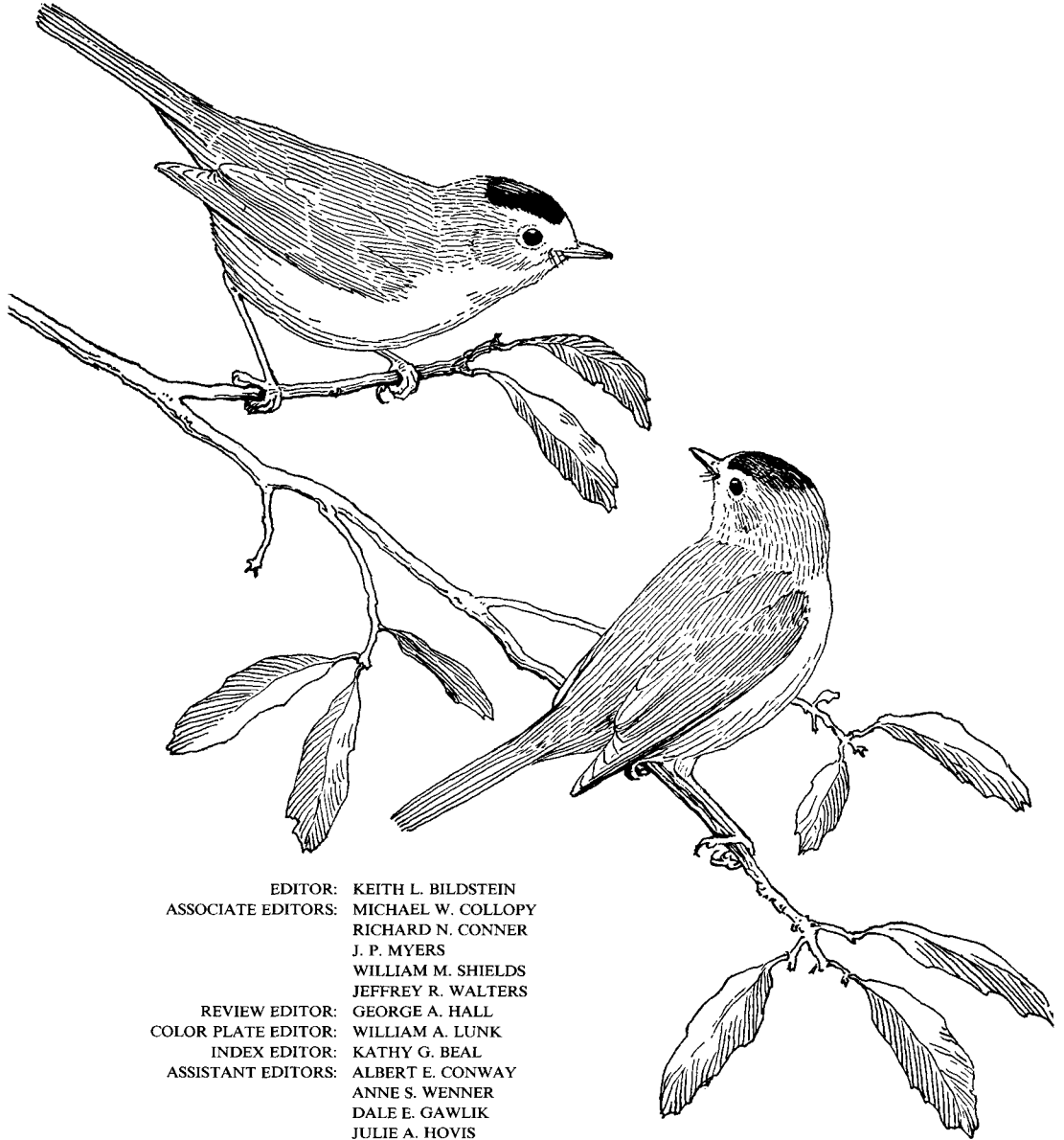
The Wilson Bulletin

PUBLISHED BY THE WILSON ORNITHOLOGICAL SOCIETY

VOLUME 98

1986

QUARTERLY



EDITOR: KEITH L. BILDSTEIN
ASSOCIATE EDITORS: MICHAEL W. COLLOPY
RICHARD N. CONNER
J. P. MYERS
WILLIAM M. SHIELDS
JEFFREY R. WALTERS
REVIEW EDITOR: GEORGE A. HALL
COLOR PLATE EDITOR: WILLIAM A. LUNK
INDEX EDITOR: KATHY G. BEAL
ASSISTANT EDITORS: ALBERT E. CONWAY
ANNE S. WENNER
DALE E. GAWLIK
JULIE A. HOVIS
JAMES W. JOHNSTON
JOHN B. OLSON
DAVID L. RANKIN

THE WILSON ORNITHOLOGICAL SOCIETY

FOUNDED DECEMBER 3, 1888

Named after ALEXANDER WILSON, the first American Ornithologist

President—Clait E. Braun, Wildlife Research Center, 317 West Prospect St., Fort Collins, Colorado 80526.

First Vice-President—Mary H. Clench, Florida State Museum, University of Florida, Gainesville, Florida 32611.

Second Vice-President—Jon C. Barlow, Department of Ornithology, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario M5S 2C6, Canada.

Editor—Keith L. Bildstein, Department of Biology, Winthrop College, Rock Hill, South Carolina 29733.

Secretary—John L. Zimmerman, Division of Biology, Kansas State University, Manhattan, Kansas 66506.

Treasurer—Robert D. Burns, Department of Biology, Kenyon College, Gambier, Ohio 43022.

Elected Council Members—Mitchell A. Byrd (term expires 1986); Curtis S. Adkisson (term expires 1987); Richard B. Stiehl (term expires 1988).

DATES OF ISSUE OF VOLUME 98
OF THE WILSON BULLETIN

NO. 1—6 MARCH 1986

NO. 2—6 JUNE 1986

NO. 3—4 SEPTEMBER 1986

NO. 4—9 DECEMBER 1986

CONTENTS OF VOLUME 98

NUMBER 1

<i>OTUS PETERSONI</i> , A NEW SCREECH-OWL FROM THE EASTERN ANDES, WITH SYSTEMATIC NOTES ON <i>O. COLOMBIANUS</i> AND <i>O. INGENS</i>	John W. Fitzpatrick and John P. O'Neill 1
MATING SYSTEM AND REPRODUCTIVE SUCCESS OF A SMALL POPULATION OF POLYGAMOUS SNOWY PLOVERS	John S. Warriner, Jane C. Warriner, Gary W. Page, and Lynne E. Stenzel 15
TEMPORAL DYNAMICS OF NEOTROPICAL BIRDS WITH SPECIAL REFERENCE TO FRUGIVORES IN SECOND-GROWTH WOODS	Thomas E. Martin and James R. Karr 38
STRUCTURE, SEASONAL DYNAMICS, AND HABITAT RELATIONSHIPS OF AVIAN COMMUNITIES IN SMALL EVEN-AGED FOREST STANDS	Richard H. Yahner 61
LATE SUMMER-SPRING MOVEMENTS OF JUVENILE SAGE GROUSE Peter O. Dunn and Clait E. Braun	83
ASSORTATIVE MATING AND SEXUAL DIMORPHISM IN THE COMMON TERN ...	Malcolm C. Coulter 93
RUDDY TURNSTONES, GREAT HORNED OWLS, AND EGG LOSS FROM COMMON TERN CLUTCHES Ralph D. Morris and David A. Wiggins	101
PREY-SIZE SELECTION IN NESTING MALE AND FEMALE COOPER'S HAWKS Patricia L. Kennedy and Donald R. Johnson	110
HUNTING SUCCESS OF SOME MISSOURI RAPTORS	Brian Toland 116
GENERAL NOTES	
GROWTH OF SHINY COWBIRD AND HOST CHICKS	James W. Wiley 126
AUTUMN SANDHILL CRANE HABITAT USE IN SOUTHEAST OREGON	Carroll D. Littlefield 131
DIETS OF HOUSE SPARROWS IN URBAN AND RURAL HABITATS Ann P. Gavett and James S. Wakeley	137
VEGETATION STRUCTURE AND VESPER SPARROW TERRITORY LOCATION	J. Michael Reed 144
MALE AND FEMALE PARENTAL CARE IN TREE SWALLOWS	Terry E. Quinney 147
EXTRAPAIR COPULATIONS IN THE TREE SWALLOW	Michael P. Lombardo 150
POLYGyny IN THE YELLOW WARBLER	Dominick A. DellaSala 152
TWO MALE BOBOLINKS FEED YOUNG AT THE SAME NEST	Eric K. Bollinger, Thomas A. Gavin, Catherine J. Hibbard, and J. Timothy Wootton 154
CONSPECIFIC NEST TAKEOVERS AND EGG DESTRUCTION BY WHITE IBISES	Peter Frederick 156
WINTER DIETS OF VULTURES IN SOUTH-CENTRAL PENNSYLVANIA Richard H. Yahner, Gerald L. Storm, and Anthony L. Wright	157
BREEDING BIOLOGY OF THE SEYCHELLES BLACK PARROT (<i>CORACOPSIS NIGRA BARKLYI</i>) Robert E. Merritt, Patricia A. Bell, Victorin Laboudallon	160
ADDITIONS TO RECORDS OF NORTH AMERICAN AVIFAUNA IN YUCATÁN, MEXICO David T. Rogers, Jr., Jesús García B., and Antonio Rógel B.	163
CHOICE OF NEST BOXES BY CAVITY-NESTING DUCKS Harry G. Lumsden, Judy Robinson, and Ronald Hartford	167
ROCK DOVES NESTING IN TREES	A. Townsend Peterson 168
A NEW METHOD FOR COLLECTING PREY DELIVERED TO TUFTED PUFFIN CHICKS ...	Pat Baird 169
LAUGHING GULL NESTING ATTEMPT ON LAKE ERIE Elliot J. Tramer and Louis W. Campbell	170
ADULT MALE BLUE GROUSE EATS LIZARDS	Lee H. Simons 171
ORNITHOLOGICAL LITERATURE	173
ANNOUNCEMENT	100
ERRATA	92

NUMBER 2

WAX DIGESTION IN WILSON'S STORM-PETREL	<i>Bryan S. Obst</i>	189
FORAGING PATTERNS OF FOREST BIRDS: MALE-FEMALE DIFFERENCES	<i>Richard T. Holmes</i>	196
THE STRUCTURE OF A FOREST BIRD COMMUNITY DURING WINTER AND SUMMER <i>Michael L. Morrison, Kimberly A. With, and Irene C. Timossi</i>		214
NEST-SITE CHARACTERISTICS OF OPEN-NESTING BIRDS IN RIPARIAN HABITATS IN IOWA <i>Dean F. Stauffer and Louis B. Best</i>		231
ASPECTS OF THE BIOLOGY OF THE HORNED SCREAMER IN SOUTHWESTERN COLOMBIA <i>Luis G. Naranjo</i>		243
SOME ASPECTS OF THE BREEDING BIOLOGY OF RED-WINGED BLACKBIRDS IN ALASKA <i>A. David McGuire</i>		257
AGE-SPECIFIC FORAGING ABILITY AND THE EVOLUTION OF DEFERRED BREEDING IN THREE SPECIES OF GULLS	<i>Alexis A. E. MacLean</i>	267
THE EFFECTS OF MUSCLE BIOPSY ON SURVIVAL AND CONDITION IN WHITE-THROATED SPARROWS <i>David F. Westneat</i>		280
GENERAL NOTES		
DISTRIBUTION OF FOOD WITHIN BROODS OF BARN SWALLOWS <i>W. Bruce McGillivray and Howard Levenson</i>		286
SPECIES-AREA RELATIONSHIP OF MIGRANTS IN ISOLATED WOODLOTS IN EAST-CENTRAL ILLINOIS	<i>John G. Blake</i>	291
INCUBATION CONTINUITY AND THE ADVANTAGE OF CRYPTIC EGG COLORATION TO MOURNING DOVES	<i>David Westmoreland and Louis B. Best</i>	297
EFFECTS OF OLD NESTS ON NEST-SITE SELECTION IN BLACK-CROWNED NIGHT-HERONS AND SNOWY EGRETS	<i>William E. Davis, Jr.</i>	300
THE USE OF TAPE-RECORDED CALLS TO COUNT VIRGINIA RAILS AND SORAS <i>Rex R. Johnson and James J. Dinsmore</i>		303
FOOD ROBBERY OF WINTERING RING-NECKED DUCKS BY AMERICAN COOTS <i>James F. Bergan and Loren M. Smith</i>		306
POLYGYNY IN THE EVENING GROSBEAK	<i>Barbara A. Fee and Marc Bekoff</i>	308
NESTING TRIOS OF MOURNING DOVES	<i>David E. Blockstein</i>	309
SUPERNUMERARY ADULTS FEEDING WILLOW FLYCATCHER FLEDGLINGS <i>Michael D. Stafford</i>		311
BROOD ADOPTION BY A MALE BLACK-CAPPED CHICKADEE	<i>James L. Howitz</i>	312
BROWN THRASHERS RESPOND TO CALLS OF NORTHERN MOCKINGBIRD NESTLINGS <i>Kimberly G. Smith</i>		313
BEHAVIOR OF A POLYGYNOUS YEARLING YELLOW WARBLER <i>Mary L. Reid and Spencer G. Sealy</i>		315
RANGE EXTENSION OF CAYENNE TERNS ON THE PUERTO RICO BANK <i>Fred C. Schaffner, Robert L. Norton, and John Taylor</i>		317
DOWNY WOODPECKER FEEDS ON INSECTS IN A SPIDER'S WEB	<i>Harry M. Tiebout, III</i>	319
NEST-BUILDING BEHAVIOR IN A YOUNG AMERICAN ROBIN	<i>Pamela C. Rasmussen</i>	319
THE HISS-DISPLAY OF NESTLING BLACK-CAPPED CHICKADEES IN CAPTIVITY <i>Karen M. Apel and Charles M. Weise</i>		320
NESTLING GREAT CRESTED FLYCATCHER PARASITIZED BY LARVAL FLY (<i>PROTOCOLIPHORA HIRUDO</i>)	<i>Barrett A. Garrison, Catherine Vouchilas, and Dean F. Stauffer</i>	321
ORNITHOLOGICAL LITERATURE		322
ANNOUNCEMENTS		195, 333
INFORMATION FOR AUTHORS		335

NUMBER 3

A NEW SPECIES OF ANTWREN (FORMICARIIDAE: <i>HERPSILOCHMUS</i>) FROM PERU, WITH COMMENTS ON THE SYSTEMATICS OF OTHER MEMBERS OF THE GENUS <i>Tristan J. Davis and John P. O'Neill</i>	337
NESTING SUCCESS AND PRODUCTIVITY OF HUMMINGBIRDS IN SOUTHWESTERN NEW MEXICO AND SOUTHEASTERN ARIZONA <i>William H. Baltosser</i>	353
THE HISTORY OF THE SOUTHERN FLORIDA WOOD STORK POPULATION <i>James A. Kushlan and Paula C. Frohring</i>	368
THE EVOLUTION OF REVERSED SEXUAL DIMORPHISM IN OWLS: AN EMPIRICAL ANALYSIS OF POSSIBLE SELECTIVE FACTORS <i>Helmut C. Mueller</i>	387
WINTER POPULATION DYNAMICS OF THREE SPECIES OF MAST-EATING BIRDS IN THE EASTERN UNITED STATES <i>Kimberly G. Smith</i>	407
SOCIAL ORGANIZATION, MOVEMENTS, AND HOME RANGES OF BLUE GROUSE IN FALL AND WINTER <i>James E. Hines</i>	419
SUBSPECIES OF THE GREATER SCAUP AND THEIR NAMES <i>Richard C. Banks</i>	433
FOOD CONSUMPTION AND GROWTH ENERGETICS OF NESTLING GOLDEN EAGLES <i>Michael W. Collopy</i>	445
GENERAL NOTES	
CLUTCH-SIZE DIFFERENCES IN WESTERN AND INTRODUCED EASTERN POPULATIONS OF HOUSE FINCHES: PATTERNS AND HYPOTHESES <i>J. Timothy Wootton</i>	459
LATE FLEDGING DATES, RENESTING, AND LARGE CLUTCHES OF PRAIRIE FALCONS <i>George T. Allen, Robert K. Murphy, Karen Steenhof, and Stephen W. Platt</i>	463
CHARACTERISTICS OF RED-SHOULDERED HAWK NESTS IN SOUTHEAST OHIO <i>Mark S. Woodrey</i>	466
SPRIG DELIVERY BY BROAD-WINGED HAWKS <i>David M. Lyons, Kimberly Titus, and James A. Mosher</i>	469
REVERSE MOUNTING IN THE AMERICAN KESTREL <i>Reed Bowman and Elizabeth M. Curley</i>	472
INTRASPECIFIC BROOD PARASITISM IN THREE SPECIES OF PRAIRIE-BREEDING SHOREBIRDS <i>Mark A. Colwell</i>	473
SUSPECTED INTRASPECIFIC EGG DUMPING IN THE WHITE IBIS (<i>EUDOCIMUS ALBUS</i>) <i>Peter C. Frederick and Mark A. Shields</i>	476
A CASE OF BROOD MIXING BY COMMON LOONS <i>Paul I. V. Strong, John A. Bissonette, and Richard Souza</i>	478
USE OF FENCEPOST CAVITIES BY NESTING EASTERN BLUEBIRDS IN SOUTHWESTERN VIRGINIA <i>Thomas A. Pierson and Patrick F. Scanlon</i>	479
LITTLE BLUE HERONS NESTING AMONG CATTAILS <i>Richard T. Hoppe and Robert A. Kennamer</i>	482
SWALLOWS TAKING INSECTS FROM POND SURFACES <i>Robert R. Cohen and Mark L. Dymerski</i>	483
DRINKING BY NORTHERN BOBWHITES IN TEXAS ... <i>N. L. N. S. Prasad and Fred S. Guthery</i>	485
SEVERE AGGRESSION BETWEEN FEMALE BLACK-HEADED GROSBEAKS <i>Geoffrey E. Hill</i>	486
AN ALBINO GREATER SHEARWATER: FEATHER ABRASION AND FLIGHT ENERGETICS <i>David S. Lee and Gilbert S. Grant</i>	488
ORNITHOLOGICAL LITERATURE	491
ANNOUNCEMENTS	418, 504

NUMBER 4

OBSERVATIONS ON THE ECOLOGY AND BEHAVIOR OF THE PALE-BILLED SICKLEBILL <i>Bruce M. Beehler and Carol H. Beehler</i>	505
POTENTIAL USE OF FEATHER CHEMISTRY AS AN INDICATOR OF RELATIVE GROWTH <i>Gary R. Bortolotti and Jon C. Barlow</i>	516
TIMING AND LOCATION OF SPRING SPERM RELEASE IN NORTHERN THRUSHES <i>W. B. Quay</i>	526
GROWTH OF NESTLING SAGE SPARROWS AND BREWER'S SPARROWS <i>Kenneth L. Petersen, Louis B. Best, and Brian M. Winter</i>	535
NEST-SITE CHARACTERISTICS AND REPRODUCTIVE SUCCESS OF LONG-EARED OWLS IN SOUTHWESTERN IDAHO	<i>Jeffrey S. Marks</i> 547
RED-TAILED HAWK NEST SITES IN PUERTO RICO <i>Eduardo Santana C., Eddie N. Laboy, James A. Mosher, and Stanley A. Temple</i>	561
THE COURTSHIP BEHAVIOR AND MIXED-SPECIES PAIRING OF KING AND IMPERIAL BLUE-EYED SHAGS (<i>PHALACROCORAX ALBIVENTER</i> AND <i>P. ATRICEPS</i>)	<i>Douglas Siegel-Causey</i> 571
GENERAL NOTES	
DISPERSAL OF RECENTLY FLEDGED MOURNING DOVES FROM NEST SITES <i>Ronald R. Hitchcock and Ralph E. Mirarchi</i>	581
OBSERVATIONS ON THE BREEDING BIOLOGY OF EMERALD TOUCANETS IN COSTA RICA <i>Cecilia M. Riley</i>	585
SEABIRD DENSITIES AND AGGREGATIONS DURING THE 1983 EL NIÑO IN THE GALAPAGOS ISLANDS	<i>David Cameron Duffy and Godfrey Merlen</i> 588
COLOR VARIATION IN THE RUDDY DUCK (<i>OXYURA JAMAICENSIS ANDINA</i>)	<i>Jon Fjeldså</i> 592
SYSTEMATIC INTERPRETATIONS OF FOOT-SCUTE PATTERNS IN NEOTROPICAL FINCHES <i>George A. Clark, Jr.</i>	594
NORTHERN HARRIER PREDATION ON WILLOW PTARMIGAN <i>David S. Hik, Susan J. Hannon, and Kathy Martin</i>	597
PREDATION ON BLACK AND TURKEY VULTURES <i>John S. Coleman and James D. Fraser</i>	600
EASTERN BLUEBIRD RESPONSES TO NOCTURNAL BLACK RAT SNAKE PREDATION <i>R. Craig Hensley and Kimberly G. Smith</i>	602
DESTRUCTION OF HETEROSPECIFIC EGGS BY THE GRAY CATBIRD <i>Jean-Claude Belles-Isles and Jaroslav Picman</i>	603
FATAL ANTIPREDATOR BEHAVIOR OF A KILLDEER	<i>Dianne H. Brunton</i> 605
PLUNGE-DIVING BY OLIVACEOUS CORMORANTS IN CHILE	<i>David Cameron Duffy, Rory P. Wilson, Marie-Pierre Wilson, and Claudio Velasquez R.</i> 607
WHICH SEX LEADS IN PAIRED MALLARDS?	<i>Kim C. Derrickson</i> 608
AGES OF MATED PAIRS OF CALIFORNIA GULLS <i>Bruce H. Pugesek and Kenneth L. Diem</i>	610
AERIAL RAIN BATHING BY COMMON NIGHTHAWKS <i>Kevin J. McGowan and Glen E. Woolfenden</i>	612
GREEN-BACKED HERON BAITS FISH WITH INSECTS <i>Charles R. Preston, Hershel Moseley, and Carolyn Moseley</i>	613
GREAT-TAILED GRACKLE KILLS BARN SWALLOW IN FLIGHT	<i>Roger B. Clapp</i> 614
ORNITHOLOGICAL LITERATURE	616
PROCEEDINGS OF THE SIXTY-SEVENTH ANNUAL MEETING	<i>John L. Zimmerman</i> 626
ANNOUNCEMENTS	534, 560, 625, 639
INDEX	641

THE WILSON BULLETIN

Editor KEITH L. BILDSTEIN
Department of Biology
Winthrop College
Rock Hill
South Carolina 29733

Associate Editors MICHAEL W. COLLOPY
RICHARD N. CONNER
J. P. MYERS
WILLIAM M. SHIELDS
JEFFREY R. WALTERS

Assistant Editors ALBERT E. CONWAY
ANNE S. WENNER
DALE E. GAWLIK
JULIE A. HOVIS
JAMES W. JOHNSTON
JOHN B. OLSON
DAVID L. RANKIN

Review Editor GEORGE A. HALL
Department of Chemistry
P.O. Box 6045
West Virginia University
Morgantown, WV 26506

Color Plate Editor WILLIAM A. LUNK
865 North Wagner
Road
Ann Arbor, MI 48103

Index Editor KATHY G. BEAL
616 Xenia Avenue
Yellow Springs, OH 45387

SUGGESTIONS TO AUTHORS

See *Wilson Bulletin*, 98:335-336, 1985 for more detailed "Information for 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 (Sixth Edition, 1983) insofar as scientific names of U.S., Canadian, Mexican, Central American, and West Indian birds are concerned. Abstracts of major papers should be brief but quotable. In both Major Papers and General Notes, where fewer than 5 papers are cited, the citations may be included in the text. Follow carefully the style used in this issue in listing the literature cited; otherwise, follow the "CBE Style Manual" (AIBS, 1983). Photographs for illustrations should have good contrast and be on glossy 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, P.O. Box 21618, Columbus, OH 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. Richard Stiehl, Department of Biology, Southeast Missouri State Univ., Cape Girardeau, Missouri 63701.

CONTENTS

OBSERVATIONS ON THE ECOLOGY AND BEHAVIOR OF THE PALE-BILLED SICKLEBILL <i>Bruce M. Beehler and Carol H. Beehler</i>	505
POTENTIAL USE OF FEATHER CHEMISTRY AS AN INDICATOR OF RELATIVE GROWTH <i>Gary R. Bortolotti and Jon C. Barlow</i>	516
TIMING AND LOCATION OF SPRING SPERM RELEASE IN NORTHERN THRUSHES <i>W. B. Quay</i>	526
GROWTH OF NESTLING SAGE SPARROWS AND BREWER'S SPARROWS <i>Kenneth L. Petersen, Louis B. Best, and Brian M. Winter</i>	535
NEST-SITE CHARACTERISTICS AND REPRODUCTIVE SUCCESS OF LONG-EARED OWLS IN SOUTHWESTERN IDAHO	<i>Jeffrey S. Marks</i> 547
RED-TAILED HAWK NEST SITES IN PUERTO RICO <i>Eduardo Santana C., Eddie N. Laboy, James A. Mosher, and Stanley A. Temple</i>	561
THE COURTSHIP BEHAVIOR AND MIXED-SPECIES PAIRING OF KING AND IMPERIAL BLUE-EYED SHAGS (<i>PHALACROCORAX ALBIVENTER</i> AND <i>P. ATRICEPS</i>)	<i>Douglas Siegel-Causey</i> 571
GENERAL NOTES	
DISPERSAL OF RECENTLY FLEDGED MOURNING DOVES FROM NEST SITES <i>Ronald R. Hitchcock and Ralph E. Mirarchi</i>	581
OBSERVATIONS ON THE BREEDING BIOLOGY OF EMERALD TOUCANETS IN COSTA RICA <i>Cecilia M. Riley</i>	585
SEABIRD DENSITIES AND AGGREGATIONS DURING THE 1983 EL NIÑO IN THE GALAPAGOS ISLANDS	<i>David Cameron Duffy and Godfrey Merlen</i> 588
COLOR VARIATION IN THE RUDDY DUCK (<i>OXYURA JAMAICENSIS ANDINA</i>)	<i>Jon Fjeldså</i> 592
SYSTEMATIC INTERPRETATIONS OF FOOT-SCUTE PATTERNS IN NEOTROPICAL FINCHES <i>George A. Clark, Jr.</i>	594
NORTHERN HARRIER PREDATION ON WILLOW PTARMIGAN <i>David S. Hik, Susan J. Hannon, and Kathy Martin</i>	597
PREDATION ON BLACK AND TURKEY VULTURES ... <i>John S. Coleman and James D. Fraser</i>	600
EASTERN BLUEBIRD RESPONSES TO NOCTURNAL BLACK RAT SNAKE PREDATION <i>R. Craig Hensley and Kimberly G. Smith</i>	602
DESTRUCTION OF HETEROSPECIFIC EGGS BY THE GRAY CATBIRD <i>Jean-Claude Belles-Isles and Jaroslav Picman</i>	603
FATAL ANTIPREDATOR BEHAVIOR OF A KILLDEER	<i>Dianne H. Brunton</i> 605
PLUNGE-DIVING BY OLIVACEOUS CORMORANTS IN CHILE	<i>David Cameron Duffy, Rory P. Wilson, Marie-Pierre Wilson, and Claudio Velasquez R.</i> 607
WHICH SEX LEADS IN PAIRED MALLARDS?	<i>Kim C. Derrickson</i> 608
AGES OF MATED PAIRS OF CALIFORNIA GULLS <i>Bruce H. Pugesek and Kenneth L. Diem</i>	610
AERIAL RAIN BATHING BY COMMON NIGHTHAWKS <i>Kevin J. McGowan and Glen E. Woolfenden</i>	612
GREEN-BACKED HERON BAITS FISH WITH INSECTS <i>Charles R. Preston, Hershel Moseley, and Carolyn Moseley</i>	613
GREAT-TAILED GRACKLE KILLS BARN SWALLOW IN FLIGHT	<i>Roger B. Clapp</i> 614
ORNITHOLOGICAL LITERATURE	616
PROCEEDINGS OF THE SIXTY-SEVENTH ANNUAL MEETING	<i>John L. Zimmerman</i> 626
ANNOUNCEMENTS	534, 560, 625, 639
INDEX	641