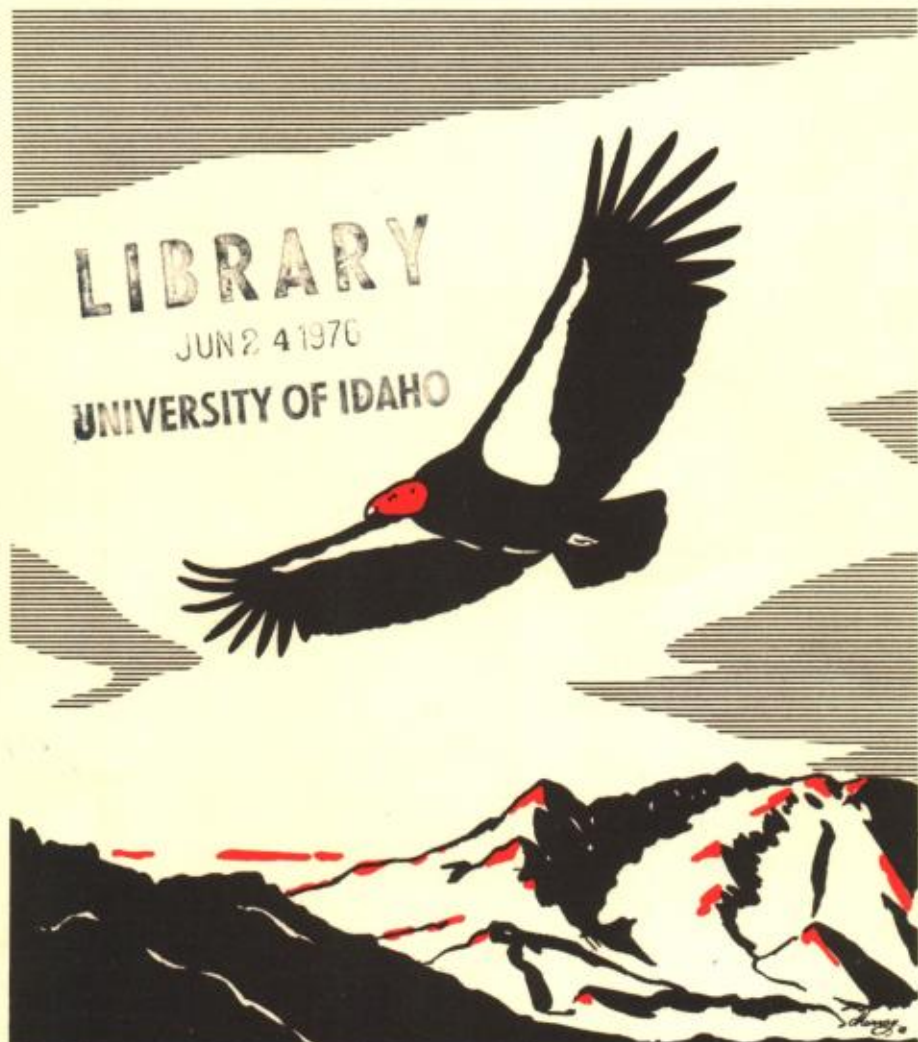


THE CONDOR

Volume 78

Spring 1976

Number 1



JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

COOPER ORNITHOLOGICAL SOCIETY

OFFICERS

President: HAROLD F. MAYFIELD, 9235 River Road, Waterville, Ohio 43566.

Vice-president: KENNETH STAGER, L. A. County Museum, Exposition Park, Los Angeles, California 90007.

Secretary: RUSSELL P. BALDA, Department of Biological Sciences, Northern Arizona University, Flagstaff, Arizona 86001.

Assistant Secretary: PAUL H. BALDWIN, Dept. of Zoology, Colorado State Univ., Fort Collins, Colo. 80521.

Treasurer: JANE R. DURHAM, P.O. Box 520, Tempe, Arizona 85281.

Assistant Treasurer: JAMES G. MILLER, Department of Zoology, University of California, Los Angeles, California 90024.

Editor, The Condor: PETER STETTENHEIM, Meriden Road, Lebanon, New Hampshire 03766.

Editor, Pacific Coast Avifauna: RALPH J. RAITT, Department of Biology, New Mexico State University, Las Cruces, New Mexico 88001.

BOARD OF DIRECTORS

RUSSELL P. BALDA

WILLIAM R. DAWSON

THOMAS R. HOWELL

JOSEPH R. JEHL

J. DAVID LIGON

OLIVER P. PEARSON

DENNIS M. POWER

PETER STETTENHEIM

EDGAR STONE

COUNCIL

MIKLOS D. F. UDVARDY, *President*

JENNIFER M. WHITE, *Secretary*

DAVID G. AINLEY

M. DALE ARVEY

RUSSELL P. BALDA

LUIS F. BAPTISTA

WILLIAM H. BEHLE

LAURENCE BINFORD

DONALD L. BLEITZ

CARL E. BOCK

THOMAS J. CADE

GENE M. CHRISTMAN

HOWARD L. COGSWELL

NICHOLAS E. COLLIAS

CHARLES T. COLLINS

JOHN DAVIS

WILLIAM R. DAWSON

JANE DURHAM

MERCEDES S. FOSTER

WILSON C. HANNA

JOHN WILLIAM HARDY

ED N. HARRISON

THOMAS R. HOWELL

NED K. JOHNSON

DAVID W. JOHNSTON

LLOYD F. KIFF

JAMES R. KING

J. DAVID LIGON

BRUCE L. MANION

BARBARA W. MASSEY

HAROLD F. MAYFIELD

L. RICHARD MEWALDT

JAMES R. NORTHERN

GORDON H. ORIAN

ROBERT T. ORR

KENNETH C. PARKES

ROBERT B. PAYNE

OLIVER P. PEARSON

SIDNEY B. PEYTON

FRANK A. PITELKA

DENNIS M. POWER

RALPH J. RAITT

STEPHEN M. RUSSELL

GARY D. SCHNELL

KENNETH E. STAGER

PETER STETTENHEIM

EDGAR N. STONE

LASZLO J. SZIJJ

HARRIET P. THOMAS

LISE THOMSEN

MIKLOS D. F. UDVARDY

JACK C. VON BLOEKER, JR.

STUART L. WARTER

JENNIFER MEUX WHITE

FRANCIS S. L. WILLIAMSON

MEMBERSHIP

Any person interested in the study and advancement of ornithology may become a member if endorsed by a regular member. Dues are as follows: regular members, \$15.00 per year, of which \$9.00 are for a year's subscription to THE CONDOR; student members, \$8.00 per year; sustaining members, \$25.00 per year; contributing members, \$25.00 per year. Members of all classes receive THE CONDOR. Life memberships in the Society are no longer available.

Send payment for dues, notices of change of address, and requests for information concerning memberships to *Jane R. Durham, Treasurer, P.O. Box 520, Tempe, Arizona 85281.*

Known office of publication: Department of Zoology, University of California, Los Angeles, California 90024. Second class postage paid at Los Angeles, California, and additional mailing offices.

DIVISIONS

Two divisions of the Society in California hold regular meetings open to members and guests.

Northern Division. *President:* Jennifer Meux White, Lawrence Hall of Science, University of California, Berkeley, California 94720.

Southern Division. *President:* James R. Northern, Dept. of Ornithology and Mammalogy, Los Angeles Co. Museum, Exposition Park, Los Angeles, Calif. 90007.

PUBLICATIONS

THE CONDOR is a journal published quarterly. Subscription price to institutions and non-members, \$20.00 per volume, payable in advance. Single copies, \$5.50 each. Subscription orders should be sent to the *Treasurer* (address above). Send orders for single copies to the *Assistant Treasurer* (see above).

PACIFIC COAST AVIFAUNA is a series of longer contributions, published at irregular intervals. Inquiries concerning manuscripts should be addressed to the *Editor, Ralph J. Raitt, Department of Biology, New Mexico State University, Las Cruces, New Mexico 88001.* Issues may be purchased from the *Assistant Treasurer* of the Society (see back cover of this journal).

Printed Quarterly at Lawrence, Kansas, U.S.A. by Allen Press, Inc.

Second-class postage paid at Lawrence, Kansas, U.S.A. 66044.

© The Cooper Ornithological Society 1976.

THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

Volume 78, Number 1

Issued 14 June 1976

Editor: PETER STETTENHEIM

Associate Editors:

MERCEDES S. FOSTER
Museum of Vertebrate Zoology
University of California
Berkeley, California 94720

GARY D. SCHNELL
Department of Zoology
University of Oklahoma
730 Van Vleet Oval, Room 222
Norman, Oklahoma 73069

Editorial Assistants:

ELIZABETH PRYOR MACEACHRAN
Meriden Road
Lebanon, New Hampshire 03766

MARGARET CHAMBERS
22314 Clarksburg Road
Boysds, Maryland 20720

CONTENTS

- The Age of Laysan Albatrosses, *Diomedea immutabilis*, at First Breeding
MARGARET T. VAN RYZIN and HARVEY I. FISHER 1
- Taste Preferences, Color Preferences, and Flower Choice in Hummingbirds
F. GARY STILES 10
- Mating System and Reproductive Biology of Malachite Sunbirds
LARRY L. WOLF and JANET S. WOLF 27
- Mohave Desert Avifauna in the Virgin River Valley of Utah, Nevada, and
Arizona
WILLIAM H. BEHLE 40
- Metabolism and Thermoregulation in Hatchling Ring-billed Gulls
WILLIAM R. DAWSON, ALBERT F. BENNETT and JACK W.
HUDSON 49
- The Breeding of Sooty Terns and Brown Noddies on Manana Island,
Hawaii
WILLIAM Y. BROWN 61
- A Comparison of Some Aspects of the Breeding Ecology of Red-headed and
Red-bellied Woodpeckers in Kansas
JEROME A. JACKSON 67
- Digestion of Dry Matter and Absorption of Water in the Intestine and
Cecum of Rock Ptarmigan
WILLIAM C. GASAWAY, ROBERT G. WHITE, and DAN F.
HOLLEMAN 77
- The Pelagic Feeding Habits of Ivory and Ross' Gulls
GEORGE J. DIVOKY 85

SHORT COMMUNICATIONS

Body Size and Longevity in Birds STAN L. LINDSTEDT and WILLIAM A. CALDER	91
Use of Bilateral Scratching Behavior by Emberizines and Icterids JON S. GREENLAW	94
The Effect of Large Song Repertoires on Neighbor "Recognition" in Male Song Sparrows DONALD E. KROODSMA	97
Effect of Sympatry on Meadowlark Vocalizations JULIE MEENTS ORDAL	100
Nonrandom Orientation of Entrance Holes to Woodpecker Nests in Aspen Trees D. W. INOUYE	101
Sharp-shinned Hawk Nesting and Nest Site Selection in Utah JOSEPH B. PLATT	102
The Influence of Early Learning on Nest Site Selection in the House Sparrow CALVIN L. CINK	103
On the Tongues of Sunbirds ROBERT SCHLAMOWITZ, F. REED HAINSWORTH, and LARRY L. WOLF	104
Cecal Fermentation in Mallards in Relation to Diet MICHAEL R. MILLER	107
First Record of the Whiskered Owl in New Mexico J. DAVID LIGON and GENE L. BRENOWITZ	112
First Breeding Records of the Barn Owl in Idaho DWIGHT G. SMITH and GARY BURKHOLDER	112
First Breeding Records of Merlins in Montana DAVID H. ELLIS	112
The Mississippi Kite in Arizona: A Second Record STEVEN W. CAROTHERS and R. ROY JOHNSON	114
Extension of the Breeding Range of the Black Oystercatcher in Alaska THOMAS J. ELEY, JR.	115
The Breeding Distribution of Smith's Longspur in Alaska BRYAN L. SAGE	116
An Observation of Nocturnal Passerine Migration through Panamá ROBERT C. BEASON	117
Additional Records of Birds from the Mollendo District, Coast of Southwest Peru R. A. HUGHES	118
Mobbing Behavior by Crows: The Effect of the "Crow-in-Distress" Model DAVID P. BARASH	120
Reactions of Quail to Flying Vultures HELMUT C. MUELLER	120
Existence Metabolism STUART L. PIMM	121
Energetics of Growth for Black-bellied Tree Ducks BRIAN W. CAIN	124
Prolonged Parental Care in the Sooty Tern and Brown Noddy WILLIAM Y. BROWN	128
Successive Polygyny in Upland Nesting Redwinged Blackbirds NIGEL R. BLAKLEY	129
Food Supply and Nest Timing of Broad-Tailed Hummingbirds in the Rocky Mountains NICKOLAS M. WASER	133
Duration of Feeding Bouts and Responses to Salt Solutions by Hummingbirds at Artificial Feeders D. M. BROOM	135
Environmental Familiarity and Activity: Aspects of Prey Selection for a Ferruginous Hawk RON L. SNYDER, WILLIAM JENSON and CARL D. CHENEY	138
Bioenergetics and Prey Selection of Captive Barn Owls LORNA G. WALLICK and GARY W. BARRETT	139
Roadrunner Catches Hummingbird in Flight SALLY HOYT SPOFFORD	142
Fall Diet of Lesser Prairie Chickens in West Texas JOHN A. CRAWFORD and ERIC G. BOLEN	142
Fat Content and Flight Range in Shorebirds Summering on Enewetak Atoll OSCAR W. JOHNSON and MARTIN L. MORTON	144
NEWS AND NOTES	146
RECENT PUBLICATIONS	148
THE BULLETIN BOARD	150