

STUDIES IN AVIAN BIOLOGY

A MONOGRAPH SERIES OF THE COOPER ORNITHOLOGICAL SOCIETY

STATUS AND DISTRIBUTION OF ALASKA BIRDS. By Brina Kessel and Daniel D. Gibson. November 1978. 100 pp. Studies in Avian Biology No. 1. Brings up to date the knowledge of distribution and occurrence of birds of Alaska, based on published and unpublished records since Gabrielson and Lincoln's The Birds of Alaska, 1959
SHOREBIRDS IN MARINE ENVIRONMENTS. Edited by Frank A. Pitelka. June 1979. 261 pp. SAB No. 2. out of print
BIRD COMMUNITY DYNAMICS IN A PONDEROSA PINE FOREST. By Robert C. Szaro and Russell P. Balda. October 1979. 66 pp. SAB No. 3. Analysis of breeding bird communities on clear cut, uniform cut, silviculturally cut, and control plots in the Coconino National Forest near Flagstaff, Arizona, during three years of study
THE AVIFAUNA OF THE SOUTH FARALLON ISLANDS, CALIFORNIA. By David F. DeSante and David G. Ainley. April 1980. 104 pp. SAB No. 4. Based on over 11 years of daily observations by Point Reyes Bird Observatory personnel, this work summarizes all known data for the 346 species of birds occurring on or around the islands: 223 are freshwater or terrestrial forms, for a landmass of 0.41 km2, 32 km from the northern California coast \$10.00
ANNUAL VARIATION OF DAILY ENERGY EXPENDITURE BY THE BLACK-BILLED MAGPIE; A STUDY OF THERMAL AND BEHAVIORAL ENERGETICS. By John N. Mugaas and James R. King. May 1981. 78 pp. SAB No. 5. This analysis of expenditure of energy by the Black-billed Magpie through one annual cycle in eastern Washington is the result of integrated field and laboratory study. Principal topics considered include the thermal environment and its influence on the biology of the magpie and energy budgeting in the annual cycle, followed by a discussion of these in relation to other aspects of the ecology and behavior of the species and a comparison with other species
ESTIMATING NUMBERS OF TERRESTRIAL BIRDS. Edited by C. John Ralph and J. Michael Scott. October 1981. 630 pp. SAB No. 6 out of print
POPULATION ECOLOGY OF THE DIPPER (Cinclus mexicanus) IN THE FRONT RANGE OF COLORADO. By Frank E. Price and Carl E. Bock. 84 pp. SAB No. 7, November 1983. This report, based on three years of field work, focuses on a particular population, its resources, social interactions, reproductive success and the potential effects of certain abiotic factors upon it
TROPICAL SEABIRD BIOLOGY. Proceedings of an International Symposium of the Pacific Seabird Group. Edited by Ralph W. Schreiber. 114 pp. SAB No. 8, December 1983. A collection of six papers presented at a 1982 symposium on seabirds of the low latitudes and their relationship to the marine ecosystem
Orders should be prepaid, except for standing orders. Prices listed above include postage and han-

dling. Make checks payable to Cooper Ornithological Society. Send orders to Cooper Ornithological

Society, P.O. Box 368, Lawrence, Kansas 66044.



Available under subscription from: THE BRITISH TRUST FOR ORNITHOLOGY

BIRD STUDY

The journal of the British Trust for Ornithology \$18.00 a year

RINGING & MIGRATION

Annual reports and papers relating to the British ringing scheme \$10.00 a year

The British Trust for Ornithology, Beech Grove, Station Road, Tring, Hertfordshire, HP23 5NR, England

JUST PUBLISHED

Ornithological Monographs No. 32

The Marine Ecology of Birds in the Ross Sea, Antarctica

by David G. Ainley Edmund F. O'Connor Robert J. Boekelheide

x + 97 pp., 42 text figures. 1984. Price \$9.00 (\$8.00 to AOU members).

Ornithological Monographs No. 33

Sexual Selection Lek and Arena Behavior and Sexual Size Dimorphism in Birds

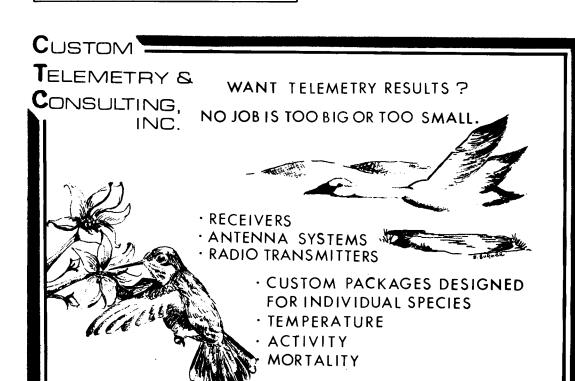
by Robert B. Payne

viii + 52 pp., 12 text figures. 1984. Price \$8.00(\$6.50 to AOU members).

Order from:

Frank R. Moore, Assistant to the Treasurer, A.O.U., Department of Biology, University of Southern Mississippi, Southern Station Box 5018, Hattiesburg, Mississippi 39406, U.S.A.

All orders must be prepaid and include a \$0.50 handling charge.



CALL (404).548-1024 or WRITE FOR OUR FREE BROCHURE.
185 LONGVIEW DRIVE: ATHENS, GA. 30605

Spring Accumulation of Fat by Greater G. GAUTHIER, J. BÉDARD, J. F.	Snow Geese in Two Staging Habitats HUOT, and Y. BÉDARD 192
Fidelity to Breeding Territory in a Pop STEWART W. JANES	oulation of Red-tailed Hawks
Richardson's Mexican Collection: Birds	
SHORT COMMUNICATIONS	
Body Water Content in Marine Birds SHEILA A. MAHONEY and JOSEPH R. JI	EHL, JR
Protein Reserves during Staging in Greater Snov G. GAUTHIER, J. BÉDARD, J. HUOT, an	w Geese d Y. BÉDARD
Plumage Color Changes in a Nihoa Millerbird (SHEILA CONANT	Acrocephalus familiaris)
Allofeeding in Eurasian Siskins (Carduelis spinu	
Interspecific Allopreening between Crested Cara	
The First Documented Breeding of the Boreal C DAVID A. PALMER and RONALD A. RY	Owl in Colorado
An Inland Nest Record for the Kittlitz's Murrel	
Blue-winged Teal Nesting in Hawaii PETER W. C. PATON, AVERY TAYLOR,	
The Ocellated Crake (Micropygia schomburgkii)	
Observations on the Nesting of the Black-cheste	
DETER OCHOONIMANTER	
COMMENTARY	
PRESIDENT'S LETTER	
THE BULLETIN BOARD	
NEWS AND NOTES	
	117, 129, 145, 150, 169, 186, 223
Editor: PETER STETTENHEIM	
Associate Editors:	
RUSSELL P. BALDA	CHARLES R. BLEM
MICHA	EL D. KERN
MARCY F. LAWTON	SUSAN M. SMITH
Assistant Editor:	Editorial Assistant:
HELEN CURCIO	SUZANNE NOTHNAGI E

INFORMATION FOR CONTRIBUTORS. Instructions on the preparation and submission of articles and other material for this journal are given in *The Condor* 86:96–97 (February 1984). Contributors are urged to follow these instructions and the niceties of the journal's style. Doing so will hasten publication, save money and effort, and gratify the editorial staff.

THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

Volume 86, Number 2 Issued 30 May 1984

CONTENTS

Biology and Conservation of the Laysan Duck (Anas laysanensis) DANIEL W. MOULTON and MILTON W. WELLER	105
The Nicaraguan Seed-Finch (Oryzoborus nuttingi) in Costa Rica F. GARY STILES	118
Examples of Tropical Frugivores Defending Fruit-bearing Plants THANE K. PRATT	123
Selection of Prey and Success of Silver Gulls Robbing Crested Terns KEES HULSMAN	130
Foraging Habits of Ruby-crowned and Golden-crowned Kinglets in an Arizona Montane Forest KATHLEEN E. FRANZREB	139
Influence of Sample Size and Sampling Design on Analysis of Avian Foraging Behavior MICHAEL L. MORRISON	146
Sexually Distinct Daily Activity Patterns of Blue-eyed Shags in Antarctica NEIL P. BERNSTEIN and STEPHEN J. MAXSON	151
Comparative Behavior of Male-female and Female-female Pairs among Western Gulls prior to Egg-laying G. L. HUNT, JR., A. L. NEWMAN, M. H. WARNER, J. C. WING- FIELD, and J. KAIWI	157
Organochlorine Residues, Eggshell Thickness, and Reproductive Success of Snowy Egrets Nesting in Idaho SCOTT L. FINDHOLT	163
Larval Dermestid Beetles Feeding on Nestling Snail Kites, Wood Storks, and Great Blue Herons NOEL F. R. SNYDER, JOHN C. OGDEN, J. DAVID BITTNER, and GERALD A. GRAU	170
Body Temperature Regulation in Red-tailed Hawks and Great Horned Owls: Responses to Air Temperature and Food Deprivation SUSAN B. CHAPLIN, DONALD A. DIESEL, and JAMES A. KASPARIE	175
Basal Metabolic Rate and Energy Expenditure during Incubation in the Wandering Albatross (<i>Diomedea exulans</i>) CHRISTOPHER R. BROWN and NIGEL J. ADAMS	182
Fecal Sac Removal by Tree Swallows: the Cost of Cleanliness PATRICK J. WEATHERHEAD	187

(Continued on inside back cover)