

BIRDS OF TROPICAL AMERICA

by Alexander F. Skutch

Drawings by Dana Gardner



Among the thirty-four species of tropical American birds whose biographies fill this book are toucans, motmots, jacamars, tinamous, puffbirds, and potoos—birds whose very names evoke visions of the grand, mysterious forests of Central and South America and the fascinating feathered creatures who dwell there. For over five decades Skutch spared no effort to learn all he could about them as living creatures. His lovely, poignant accounts of their lives are equaled by the drawings of talented young artist Dana Gardner and by splendid photographs by the author \$29.95

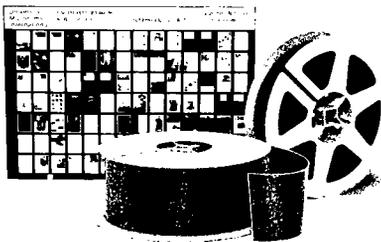
Write for other books by Alexander F. Skutch.



University of Texas Press

Box 7819 Austin, Texas 78712

**this publication
is available in
microform**



Please send me additional information.

University Microfilms International

300 North Zeeb Road
Dept. P.R.
Ann Arbor, MI 48106
U.S.A.

18 Bedford Row
Dept. P.R.
London, WC1R 4EJ
England

Name _____
Institution _____
Street _____
City _____
State _____ Zip _____

AVES BRASILEIRAS

BIRDS OF BRAZIL IDENTIFICATION GUIDE

Now it's easy to discover the name of any Brazilian bird. In this book, J.D. Frisch gives the scientific name, the popular names (in Portuguese, Spanish and English) along with the habits and more than 1,560 drawings that facilitate identification by illustrating the original colors. Printed in Italy by Mondadori, this bestseller in its field now includes an Addendum translating the major parts of the text into English.



Size 6" x 9"
356 pages

ORDER FORM

Clip this coupon and send it, together with a check payable to

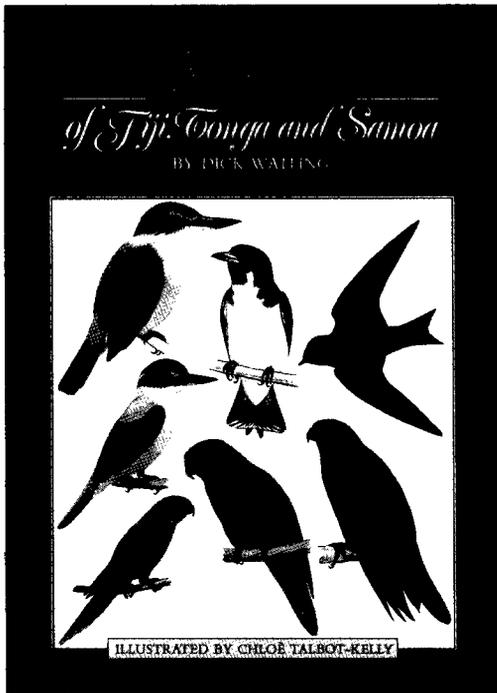
Editora Dalgas-Ecoltec Ltda. 01416 - Rua da Consolação, 3095 - São Paulo - SP - Brasil,
to receive your copy by mail.

Deluxe Edition for libraries US\$ 49.95

Special Edition for field research US\$ 29.95

Please add US\$ 8.50 for air shipment

Name _____
Address _____
City _____ State _____ ZIP _____



Birds of Fiji, Tonga and Samoa, is the first definitive account of the ornithology of this island region in the South-west Pacific, where there is a lack of and a growing demand for ornithological material. This book is based on Dr Watling's research and experience in the region and a thorough review of the literature.

There is a species account for each resident and regular migrant bird, with sections on identification-oriented descriptions, flight, voice, food, breeding and ecology. Distribution maps are an important identification aid.

The birds are magnificently illustrated on full colour plates by Chloë Talbot-Kelly, an internationally renowned ornithological artist. She has also prepared black and white text illustrations depicting special features. Photographs by Jim Siers, foremost Pacific photographer, illustrate the bird's habitat. There is a thorough Bibliography and three indices, which provide readers with easy access to any particular bird.

The book is divided into five parts:

- Part One** — *Introduction*
 - The Background
 - Maps
 - Ornithological History
 - Composition of the Avifauna
 - Ecological Isolation of Closely Related Land Birds
 - Breeding and Moults
 - Conservation, Species Lost and Rare or Endangered Birds
 - The Fiji Region
- Part Two** — *Colour Plates*
- Part Three** — *The Land Birds*
- Part Four** — *The Sea Birds*
- Part Five** — *Appendices*

Specifications

Size: 216mm wide x 298mm deep.
 Extent: 176 pages on fine quality offset paper.
 Fifteen colour plates.
 Colour photographs of the region.
 Black and white sketches and photographs.
 Distribution maps.
 ISBN 0-908582-36-6

Birds of Fiji, Tonga and Samoa is available from the publishers at \$NZ45.00.

To order, either write, or return this coupon to:
 Millwood Gallery,
 291b Tinakori Road,
 Wellington,
 New Zealand,
 Telephone 735-176

To Millwood Gallery:

Please send me copies of
Birds of Fiji, Tonga and Samoa.

Name

Address

.....

.....

Include your international money order for \$NZ45.00. This amount includes packaging and surface postage anywhere in the world.

Published by Millwood Press Ltd,
 Wellington, New Zealand.

(Continued from outside back cover)

SHORT COMMUNICATIONS

<i>Melampitta gigantea</i> : Possible Relation between Feather Structure and Underground Roosting Habits JARED M. DIAMOND	89
Spontaneous Blink Rates of Birds SUZANNE J. KIRSTEN and EDWARD B. KIRSTEN	92
Nest Predation in Insular and Mainland Lowland Rainforest in Panama BETTE A. LOISELLE and WILLIAM G. HOPPE	93
Additions to the Avifauna of Bolivia, Part 2 J. V. REMSEN, JR. and MELVIN A. TRAYLOR, JR.	95
Fledging Dates and Southward Migration of Juveniles of Some <i>Calidris</i> Sandpipers DENNIS R. PAULSON	99
Plumage Characteristics of Juvenile Black-chinned Hummingbirds FRANK A. BALDRIDGE	102
A New Age- and Sex-specific Molt Scheme for the Red-winged Blackbird HAMILTON GREENWOOD, PATRICK J. WEATHERHEAD and RODGER T. TITMAN	104
Mate Replacement in Purple Martins: Little Evidence for Altruism CHARLES R. BROWN	106
Water Loss from Pipped Wedge-tailed Shearwater Eggs T. N. PETTIT and G. C. WHITTOW	107
Variation in the Egg Markings of the Brown-headed Cowbird ALFRED M. DUFTY, JR.	109
Seasonal Variation in Nest Placement of Abert's Towhees DEBORAH M. FINCH	111
Flight Song and Song Flight in the Orange-crowned Warbler WILLIAM M. GILBERT	113
INFORMATION FOR CONTRIBUTORS	114
NEWS AND NOTES	116
RECENT PUBLICATIONS	29, 49, 60, 65, 73, 118

INFORMATION FOR CONTRIBUTORS. Instructions on the preparation and submission of articles and other materials for this journal are given in this issue, pages 114-115.

THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

Volume 85, Number 1

Issued 28 February 1983

Editor: PETER STETTENHEIM

Associate Editors:

RUSSELL P. BALDA

CHARLES R. BLEM

MICHAEL D. KERN

GARY D. SCHNELL

SUSAN M. SMITH

Assistant Editor:

Editorial Assistant:

HELEN CURCIO

SUZANNE NOTHNAGLE

CONTENTS

Dynamics of Incubation in Mountain White-crowned Sparrows EILEEN ZERBA and MARTIN L. MORTON	1
Breeding Biology of the Xantus' Murrelet KELVIN G. MURRAY, KATHY WINNETT-MURRAY, ZOE A. EPP- LEY, GEORGE L. HUNT, JR., and DOUGLAS B. SCHWARTZ . . .	12
Relationships between Tidal Oscillations and Ruddy Turnstone Flocking, Foraging, and Vigilance Behavior ROBERT C. FLEISCHER	22
Quantitative Analysis of Prairie Grouse Vocalizations DONALD W. SPARLING	30
Influence of Incubation Calls on Post-hatching Responses of Pheasant Chicks E. D. BAILEY	43
Hatching of Forster's Terns MARTIN K. McNICHOLL	50
Effects of Dietary Protein Levels on Body Weight, Food Consumption, and Nitrogen Balance in Ruffed Grouse PATRICK R. BECKERTON and ALEX L. A. MIDDLETON	53
The Metabolic Rate of Tropical Birds C. J. HAILS	61
Nesting Ecology of Thick-billed Parrots DIRK V. LANNING and JAMES T. SHIFLETT	66
Survival of Mallard Broods in South-central North Dakota LARRY G. TALENT, ROBERT L. JARVIS, and GARY L. KRAPU	74
Status of a Northern Population of California Brown Pelicans DANIEL W. ANDERSON and FRANKLIN GRESS	79

(Continued on inside back cover)