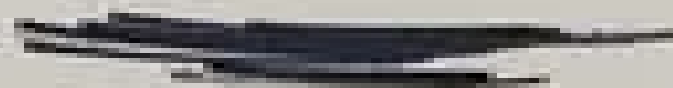


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Parental Care and Its Evolution in Birds

BY CHARLES MONROE

ILLUSTRATED BY MONROE W. WILSON. NEW YORK: DODD, MEYER & CO., 1901.



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PUBLISHED, 1901

Parental Care Its Evolution In Birds

Irby J. Lovette, John W. Fitzpatrick



Parental Care Its Evolution In Birds:

Parental Care and Its Evolution in Birds Samuel Charles Kendeigh, 1955 Reproductive Biology and Phylogeny of Birds, Part B: Sexual Selection, Behavior, Conservation, Embryology and Genetics Barrie G M Jamieson, 2007-01-02 The second part of volume 6 discusses sexual selection of ultraviolet and structural signals melanins and carotenoids as feather colorants and signals sexual selection and auditory signaling odors and chemical signaling sexual dimorphism sexual selection signal selection and the handicap principle courtship and copulation sexual conflict and **Parental Care in Mammals** David J. Gubernick, 2013-11-11 The editors of this volume have honored me by their invitation to write its Fore word an invitation extended because of my editing a book on the maternal behavior of mammals in 1963 Much as I would like to think that I had opened a new area of study and so played some part in the appearance of this fine new collection of chapters the facts are quite otherwise That in 1963 I could assemble the efforts of many distinguished investigators shows that the topic had already engaged their attention and had for some years past But even then the topic had origins extending much farther into the past to mention only Wiesner and Sheard's book *Maternal Behavior in the Rat* of 1933 Nevertheless in 1963 it seemed to me that the study of maternal care in mammals had lagged behind the study of other kinds of social behavior The present volume does much to establish parental care of the young as a topic central to an understanding of the relation between ontogeny and phylogeny to the development of the young to the social organization of the species and to its preservation It may now be seen not only as interesting but as a most significant pattern of behavior among mammals

Handbook of Bird Biology Irby J. Lovette, John W. Fitzpatrick, 2016-06-27 Selected by Forbes.com as one of the 12 best books about birds and birding in 2016 This much anticipated third edition of the *Handbook of Bird Biology* is an essential and comprehensive resource for everyone interested in learning more about birds from casual bird watchers to formal students of ornithology Wherever you study birds your enjoyment will be enhanced by a better understanding of the incredible diversity of avian lifestyles Arising from the renowned Cornell Lab of Ornithology and authored by a team of experts from around the world the Handbook covers all aspects of avian diversity behaviour ecology evolution physiology and conservation Using examples drawn from birds found in every corner of the globe it explores and distills the many scientific discoveries that have made birds one of our best known and best loved parts of the natural world This edition has been completely revised and is presented with more than 800 full color images It provides readers with a tool for life long learning about birds and is suitable for bird watchers and ornithology students as well as for ecologists conservationists and resource managers who work with birds The *Handbook of Bird Biology* is the companion volume to the Cornell Lab's renowned distance learning course www.birds.cornell.edu/courses/home_homestudy *Ornithology in Laboratory and Field* Olin Sewall Pettingill, 2013-10-02 *Ornithology in Laboratory and Field* is intended as an aid to ornithological study at the college or university level Students who lack the background knowledge usually acquired during a course in general zoology or biology

should keep it handy for ready reference a standard elementary text on the subject This book contains extensive material for purely informational reading possibly enough to supplant the need of an additional textbook Its principal purpose still complies with the title of its predecessors for it is essentially a manual to guide and assist the student in direct observations All twenty sections except the last The Origin Evolution and Decrease of Birds suggest methods and provide instructions for studies and all conclude with an extensive list of references frequently annotated for further information The twenty sections of the book can be taken up in almost any order and some may be omitted without affecting the instructional value of the others A feature of this new edition is an introduction to birds and ornithology intended for reading at the beginning of a course The purpose is twofold to show the significance of birds for study and to give an overall preview of ornithology the subject with emphasis on its wide scope how it is studied and some of the continuing and exciting opportunities that it offers for investigation

Biology and Comparative Physiology of Birds A. J. Marshall, 2013-10-22 Biology and Comparative Physiology of Birds Volume II focuses on the physiology sexual characteristics sensory organs nervous system and reproduction of birds The selection first offers information on the central nervous system and sensory organ of birds as well as cerebralization and related problems brain spinal cord skin taste and olfaction The book then ponders on equilibration vision and hearing of birds Topics include regulation of somatic musculature sensory structures and their nerves retina color vision and structure of the ear The publication examines endocrine glands thymus and pineal body and sex and secondary sexual characters including genetic sex and sex differentiation adrenal and parathyroid glands and pituitary or hypophysis The text also takes a look at energy metabolism thermoregulation body temperature reproduction breeding seasons and migration and flight of birds The selection is a vital source of information for readers interested in the physiology of birds

Sturkie's Avian Physiology Colin G. Scanes, 2014-06-30 Sturkie's Avian Physiology is the classic comprehensive single volume on the physiology of domestic as well as wild birds The Sixth Edition is thoroughly revised and updated and features several new chapters with entirely new content on such topics as migration genomics and epigenetics Chapters throughout have been greatly expanded due to the many recent advances in the field The text also covers the physiology of flight reproduction in both male and female birds and the immunophysiology of birds The Sixth Edition like the earlier editions is a must for anyone interested in comparative physiology poultry science veterinary medicine and related fields This volume establishes the standard for those who need the latest and best information on the physiology of birds Includes new chapters on endocrine disruptors magnetoreception genomics proteomics mitochondria control of food intake molting stress the avian endocrine system bone the metabolic demands of migration behavior and control of body temperature Features extensively revised chapters on the cardiovascular system pancreatic hormones respiration pineal gland pituitary gland thyroid adrenal gland muscle gastro intestinal physiology incubation circadian rhythms annual cycles flight the avian immune system embryo physiology and control of calcium Stands out as the only comprehensive single volume devoted to bird physiology Offers a

full consideration of both blood and avian metabolism on the companion website <http://booksite.elsevier.com/9780124071605> Tables feature hematological and serum biochemical parameters together with circulating concentrations of glucose in more than 200 different species of wild birds

Current Ornithology D.M. Power, 2013-06-29 This edited series has three principal goals The first is to provide information in a relatively concise way for researchers needing an over view of specific disciplines The second is to provide an update on specific schools of thought bringing together ideas from colleagues whose works often appear in a variety of journals And the third is to stimulate and suggest directions for new research Volume 6 continues the tradition established by the previous editor and editorial board in providing new information updating our understanding of specific disciplines and stimulating new research In the first chapter Randall Breitwisch examines mortality patterns and sex ratios in monogamous birds He argues that there are many more components to measuring parental investment than are often realized our knowledge is weak in several areas Understanding the evolution of mating systems depends on better distinguishing the different intensities of natural selection that operate on males and females Gregory Butcher and Sievert Rohwer develop a framework for assessing the role of colorfulness in birds They propose several hypotheses to test and advocate evaluating more than one hypothesis at a time Future work on the evolution of distinctive coloration and of sexual and age dimorphism must take these ideas into account

Avian Energetics and Nutritional Ecology C. Carey, 2012-12-06 A symposium held in 1973 chaired and organized by William R Dawson was the first major attempt to summarize and synthesize the existing information in the then emerging field of avian energetics The symposium featured papers by James R King William A Calder III Vance A Tucker and Robert E Ricklefs and commentaries by George A Bartholomew S Charles Kendeigh and Eugene P Odum The proceedings of the symposium *Avian Energetics* Paynter 1974 played a critical role in stimulating interest and research in the field of avian energetics Some twenty odd years later we are making another attempt to summarize the information in the field of avian energetics Some obvious differences exist between its predecessor and this volume Numerous improvements in methodology such as the use of doubly labeled water to estimate metabolism in free living birds now allow researchers to ask questions that could not be addressed previously Second consideration of nutrition is now inseparable from that of energetics This merger is necessary not only because food intake is the source of both energy and nutrients but also because one or more nutrients rather than energy can be limiting for a given species in a particular instance Finally the study of energetics and nutritional ecology particularly in birds and mammals has grown so dramatically that a single volume can now only partially cover the range of possible topics and can catalogue only a sampling of all the studies on the subject

The Biology of Birds John Arthur Thomson, 1923

Current Ornithology Richard Johnston, 2013-11-11 The appearance of the first volume of a projected series is the occasion for comment on scope aims and genesis of the work The scope of *Current Ornithology* is all of the biology of birds Ornithology as a whole organism science is concerned with birds at every level of biological organization from the molecular

to the community at least from the Jurassic to the present time and over every scholarly discipline in which bird biology is done to say this is merely to expand a dictionary definition of ornithology The aim of the work to be realized over several volumes is to present reviews or position statements concerning the active fields of ornithological research The reviews will be relatively short and often will be done from the viewpoint of a readily identified group or school Such a work could have come into being at any time within the past fifty years but that Current Ornithology appears now is a result of events that are only seven to eight years old One important event was the initiation in 1975-1976 of the Workshop on a National Plan for Ornithology under the directorship of James R King and Walter J Bock cosponsored by the American Ornithologists Union and the National Science Foundation Part of the Workshop's interests lay in publications resources and certain kinds of information on publications were obtained by means of a questionnaire

Social Behavior of Female Vertebrates

Samuel Wasser, 2012-12-02 Social Behavior of Female Vertebrates focuses on the evolution of reproductive behavior in female vertebrates ranging from fish to birds and humans including issues of mate choice and other factors underlying female attitudes toward males It also looks at the evolution of mating systems the co evolution of the sexes sex role reversal reproductive competition between females maternal behavior and how females enhance the investment received by their offspring from others It also considers other social behaviors that influence the nature of affiliative associations between females Organized into three parts encompassing 13 chapters this volume begins with an overview of behavioral biology and sources of variation in female reproductive success It then discusses the establishment and maintenance of sex biases sex differences mediated by sexual selection constraints on female choice in the mottled sculpin mate choice by females in sexual selection of bird song and female manipulation of male avoidance of cuckoldry behavior in the ring dove The reader is also introduced to the evolution of polyandry in shorebirds reproductive strategies in human females social and health seeking behaviors of Taiwanese women female roles in cooperatively breeding acorn woodpeckers altruism in coati bands cooperation and reproductive competition among female African elephants mate choice in matrilineal macaque groups and reproductive competition and cooperation among female yellow baboons This book is a valuable resource for scientists and behavioral biologists as well as lay people whose interests span a variety of fields

Current Ornithology Val Nolan Jr., Ellen

D. Ketterson, 2012-12-06 As we assume the editorship of Current Ornithology it seems useful to review the objectives of the series We cannot improve on the statements of our predecessors when they began their service as editors In his preface to Volume 1 1983 Richard F Johnston wrote The appearance of the first volume of a projected series is the occasion for comment on scope aims and genesis of the work The scope of Current Ornithology is all of the biology of birds Ornithology as a whole organism science is concerned with birds at every level of biological organization from the molecular to the community at least from the Jurassic to the present time and over every scholarly discipline in which bird biology is done to say this is merely to expand a dictionary definition of ornithology The aim of the work to be realized over several volumes is

to present reviews or position statements concerning the active fields of ornithological research Dennis M Power who edited Volumes 6 12 1989 1995 began his preface to Volume 6 1989 as follows This edited series has three principal goals The first is to provide information in a relatively concise way for researchers needing an overview of specific disciplines The second is to provide an update on specific schools of thought bringing together ideas from colleagues whose works often appear in a variety of journals And the third is to stimulate and suggest directions for new research

A Study of the Incubation Periods of Birds William Harry Bergtold, 1917

Hormones and Behaviour in Higher Vertebrates J. Balthazart, E. Pröve, R. Gilles, 2012-12-06 Fourth Conference of the European Society for Comparative Psychology and Biochemistry Bielefeld September 8 11 1982

The Iowa Breeding Bird Atlas Laura Spess Jackson, Carol A. Thompson, James J. Dinsmore, 1996 The Iowa Breeding Bird Atlas the first comprehensive statewide survey of Iowa's breeding birds provides a detailed record of the composition and distribution of the avifauna of the Hawkeye State The atlas documents the presence of 199 species 158 of which were confirmed breeding This landmark volume will alert Iowans to the limited distribution of numerous species and serve as a guide to the management practices such as forest and wetland management set aside programs reduction in farm chemical use and crop diversity which could help insure that many future changes are positive ones The Iowa Breeding Bird Atlas provides a welcome and much needed baseline for future comparisons of changes in Iowa's birdlife and by extension the lives of all animals in the state

The Emperor's Embrace Jeffrey Masson, 2001-02-28

Jeffrey Moussaieff Masson's marvelous Jane Goodall New York Times bestseller When Elephants Weep made us re-evaluate the emotional lives of animals And in his follow up New York Times bestseller Dogs Never Lie About Love Masson reflected with intelligence and originality Los Angeles Times Sunday Book Review on the emotional world of dogs Now in The Emperor's Embrace Masson offers a remarkable look at one of the most fulfilling roles in the animal world fatherhood With fascinating insight impeccable research and captivating writing controversial psychoanalyst Jeffrey Masson a new father himself introduces us to the world's best dads He takes us to such places as Antarctica as he explores how emperor penguin fathers incubate the eggs of their young by carrying them around on their feet for two months nestled beneath a special brood pouch And he tells us how once the babies hatch the fathers snuggle the babies on their feet until the mother returns from her time at sea feeding them a special milk like substance until her arrival Masson a superb storyteller showcases the extraordinary behavior of outstanding fathers heroes among animals including the wolf and why wolves make good fathers and dogs don't the beaver who encourages his young to cling to his tail as he navigates through ponds the sea horse the only male animal that gives birth to its young the marmoset the South American monkey who carries his babies for the first two years of their lives wherever he goes Masson also examines nature's worst fathers lions langurs bears and humans He shows that when a father does care for his young as with the beaver we immediately look for a biological and not an emotional explanation But Masson demonstrates that for these animals as with humans fatherhood is a profound all encompassing experience

Groundbreaking compelling inspirational Masson's unique look at one of nature's most venerable institutions takes us to animal habitats around the world yet always returns to the heart For animal lovers fathers mothers sons and daughters everywhere *The Emperor's Embrace* is a book that will forever change our perceptions of parenthood and family love The Barn Swallow Angela Turner, 2010-01-29 The Barn Swallow is a familiar and popular bird throughout the world It is one of the most widely distributed bird species breeding in North America Europe Asia and North Africa and wintering in South America southern Africa southern Asia and even northern Australia Its habit of nesting close to human habitation has made this elegant bird a part of farmyard and village life and a welcome herald of spring This book examines all aspects of the life of this endearing bird with chapters on its flying skills and feeding habits mate choice breeding strategies nest sites eggs and incubation nestling rearing productivity and survival migratory behaviour and population dynamics It also considers changes in populations and behaviour in relation to intensive agriculture and climate change The Barn Swallow is both engaging and authoritative birdwatchers will enjoy amazing insights into the life of the species such as the importance of tail feathers when finding a mate or the sinister way that some birds kill off the chicks of rivals Academic scholars will appreciate the book's broad overview of current research on this species *Shorebird Ecology, Conservation, and Management* Dr. Mark A. Colwell, 2010-11-16 Shorebirds are model organisms for illustrating the principles of ecology and excellent subjects for research Their mating systems are as diverse as any avian group their migrations push the limits of endurance and their foraging is easily studied in the open habitats of estuaries and freshwater wetlands This comprehensive text explores the ecology conservation and management of these fascinating birds Beginning chapters examine phylogenetic relationships between shorebirds and other birds and cover shorebird morphology anatomy and physiology A section on breeding biology looks in detail at their reproductive biology Because shorebirds spend much of their time away from breeding areas a substantial section on non breeding biology covers migration foraging ecology and social behavior The text also covers shorebird demography population size and management issues related to habitat predators and human disturbances Throughout it emphasizes applying scientific knowledge to the conservation of shorebird populations many of which are unfortunately in decline *The Pedagogical Seminary*, 1898 Vols 5 15 include Bibliography of child study by Louis N Wilson

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