

# Ecology and Evolution of **Cooperative Breeding in Birds**



Edited by **Walter Koenig** and **Janis Dickinson**

CAMBRIDGE

# Ecology And Evolution Of Cooperative Breeding In Birds

**Tim Clutton-Brock**



## **Ecology And Evolution Of Cooperative Breeding In Birds:**

Ecology and Evolution of Cooperative Breeding in Birds Walter D. Koenig, Janis L. Dickinson, 2004-04-22 Cooperative breeders are species in which more than a pair of individuals assist in the production of young Cooperative breeding is found in only a few hundred bird species world wide and understanding this often strikingly altruistic behaviour has remained an important challenge in behavioural ecology for over 30 years This book highlights the theoretical empirical and technical advances that have taken place in the field of cooperative breeding research since the publication of the seminal work Cooperative Breeding in Birds Long term Studies of Behavior and Ecology 1990 HB ISBN 0521 372984 PB ISBN 0521 378907 Organized conceptually special attention is given to ways in which cooperative breeders have proved fertile subjects for testing modern advances to classic evolutionary problems including those of sexual selection sex ratio manipulation life history evolution partitioning of reproduction and incest avoidance It will be of interest to both students and researchers interested in behaviour and ecology

**Cooperative Breeding in Vertebrates** Walter D. Koenig, Janis L. Dickinson, 2016-01-07 Brings together long term studies of cooperation in vertebrates that challenge our understanding of the evolution of social behavior

Cooperative Breeding in Birds Peter B. Stacey, Walter D. Koenig, 1990-04-19 Cooperative breeding is an unusual kind of social behaviour found in a few hundred species worldwide in which individuals other than the parents help raise young Understanding the apparently altruistic behaviour of helpers has provided numerous challenges to evolutionary biologists This book includes detailed first hand summaries of many of the major empirical studies of cooperatively breeding birds It provides comparative information on the demography social behaviour and behavioural ecology of these unusual species and explores the diversity of ideas and the controversies which have developed in this field The studies are all long term and consequently the book summarises some of the most extensive studies of the behaviour of marked individuals ever undertaken Graduate students and research workers in ornithology sociobiology behavioural ecology and evolutionary biology will find much of value in this book

**Advances in the Study of Behavior** Marc

Naguib, 2021-04-27 Advances in the Study of Behavior Volume 53 provides users with the latest insights in this ever evolving field New chapters in this release include Cooperative breeding in birds Interactive singing in birds What have we learned in the last 20 years Pied babblers Mate choice in frogs Dogs and Do hosts of avian brood parasites discriminate parasitic vs predatory threats A review Serves the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of this important field Presents theoretical ideas and research to those studying animal behavior and related fields

Encyclopedia of Animal Behavior, 2019-01-21 Encyclopedia of Animal Behavior Second Edition Four Volume Set the latest update since the 2010 release builds upon the solid foundation established in the first edition Updated sections include Host parasite interactions Vertebrate social behavior and the introduction of overview essays that boost the book's comprehensive detail The structure for the work is modified to

accommodate a better grouping of subjects Some chapters have been reshuffled with section headings combined or modified Represents a one stop resource for scientifically reliable information on animal behavior Provides comparative approaches including the perspective of evolutionary biologists physiologists endocrinologists neuroscientists and psychologists Includes multimedia features in the online version that offer accessible tools to readers looking to deepen their understanding

**Tropical Biology and Conservation Management - Volume VIII** Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in ten sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size

5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

**The Evolution of Social Behaviour** Michael Taborsky, Michael A. Cant, Jan Komdeur, 2021-08-26 First book to outline the fundamental principles of social evolution underlying the stunning diversity of social systems and behaviours

*Ornithology* Michael L. Morrison, Amanda D. Rodewald, Gary Voelker, Melanie R. Colón, Jonathan F. Prather, 2018-09-03 The essential text for ornithology courses this book will leave students with a lifelong understanding and appreciation of the biology and ecology of birds Aves the birds is the wildlife group that people most frequently encounter With over 10 000 species worldwide these animals are part of our everyday experience They are also the focus of intense research and their management and conservation is a subject of considerable effort throughout the world But what are the defining attributes that make a bird a bird Aimed at undergraduate and graduate students Ornithology provides a solid modern foundation for understanding the life and development of birds Written by renowned experts from around the globe this comprehensive textbook draws on the latest research to create an innovative learning experience Moving beyond bones muscle and feathers it provides the core information needed to build the bird linking anatomy and physiology with ecology and behavior As it reviews the major orders of birds the book highlights their wide diversity and critically evaluates ornithological concepts and theories Incorporating brief biographies of leaders in the field the text describes their contributions in the context of key historical events in bird science Each chapter ends with a summary of the material covered a discussion of potential management and conservation applications and suggested study questions that will stimulate thought and discussion Contributors Peter Arcese George E Bentley Lori A Blanc William M Block Alice Boyle Leonard A Brennan Luke K Butler Zac Cheviron Luis M Chiappe Melanie R Col n Caren B Cooper Robert J Cooper Jamie M Cornelius Carlos Martinez Del Rio John Dumbacher Shannon Farrell Maureen Flannery Geoffrey Geupel Patricia Adair Gowaty Thomas P Hahn Ashley M Heers Fritz Hertel Geoffrey E Hill Matthew Johnson Lukas F Keller Dylan C Kesler Pablo Sabat Kirkwood John Klicka Christopher A Lepczyk Ashley M Long Scott R Loss Graham R Martin John M Marzluff Susan B McRae Michael L Morrison Timothy J O Connell Jen C Owen Marco Pavia Jeffrey Podos Lars Pomara Jonathan F Prather Marco Restani Alejandro Rico Guevara Amanda D Rodewald Vanya G Rohwer Matthias Starck Michael W Strohbach S Ma eika P Sullivan Diego Sustaita Kerri T Vierling Gary Voelker Margaret A Voss Jeff R Walters Paige S Warren Elisabeth B Webb Michael S Webster Eric M Wood Robert M Zink Benjamin Zuckerberg

**The Oxford Handbook of Evolutionary Family Psychology** Catherine Salmon, Todd K. Shackelford, 2011-05-27 Relationships with family are important to our emotional health and can play a significant role in our social success We need our families and yet frequently have a great difficulty understanding them Hundreds of books have

been published with the goal of improving understanding and relationships among family and relationships few if any have done so with an evolutionary approach The Oxford Handbook of Evolutionary Family Psychology focuses on the reasons underlying family behavior and how a greater understanding of these factors can help us to better understand our own family behaviors Recognizing that a deeper understanding of human families can be found through an understanding of similar phenomena in other species the volume demonstrates how an understanding of family ties can inform understanding of our relationships to non kin

**Advances in the Study of Behavior** H. Jane Brockmann, Peter J.B. Slater, Charles T. Snowdon, Timothy J. Roper, Marc Naguib, Katherine E. Wynne-Edwards, 2006-12-14 The aim of Advances in the Study of Behavior is to serve scientists engaged in the study of animal behavior including psychologists neuroscientists biologists ethologists pharmacologists endocrinologists ecologists and geneticists Articles in the series present critical reviews of significant research programs with theoretical syntheses reformulation of persistent problems and or highlighting new and exciting research concepts Advances in the Study of Behavior is now available online at ScienceDirect full text online of volumes 30 onwards Elsevier book series on ScienceDirect gives multiple users throughout an institution simultaneous online access to an important compliment to primary research Digital delivery ensures users reliable 24 hour access to the latest peer reviewed content The Elsevier book series are compiled and written by the most highly regarded authors in their fields and are selected from across the globe using Elsevier s extensive researcher network For more information about the Elsevier Book Series on ScienceDirect Program please visit <http://www.info.sciencedirect.com/bookseries> Published continuously since 1965 Multidisciplinary across social and life science subject areas Volume 36 addresses current themes in animal behavior

**Alternative Reproductive Tactics** Rui F. Oliveira, Michael Taborsky, H. Jane Brockmann, 2008-03-13 The study of alternative reproductive tactics the behavioural strategies used by individuals to increase their reproductive success is an evolutionary puzzle and one of great interest to researchers For instance why do some males guard both nest and eggs while others sneak into nests while pairs are spawning and fertilise those eggs The field offers a special opportunity to study the evolution and functional causes of phenotypic variation which is a general problem in the field of evolutionary biology By integrating both mechanistic psychological and evolutionary behavioural ecology perspectives and by covering a great diversity of species Alternative Reproductive Tactics addresses this integrated topic of longstanding interest bringing together a multitude of otherwise scattered information in an accessible form that is ideal for graduate students and researchers

**Evolution of Animal Behavior** Matthew H. Nitecki, Jennifer A. Kitchell, 1986-08-14 This volume highlights current research in the field of animal behavior with an emphasis on evolutionary perspectives The contributors represent paleontological field and experimental approaches They focus on a series of studies that confront wide ranging issues including sexual selection mate choice differential parental investment apparent altruism cooperative behavior and the relevance of phylogenetic constraints and historical information The volume will be of special interest to evolutionary

biologists behavioral ecologists and paleontologists      Comparative Social Evolution Dustin R. Rubenstein, Patrick Abbot, 2017-04-06 A comparative view of the major features of animal social life and the evolution of cooperative group living

**Animal Behavior** Ken Yasukawa, 2014-01-22 Discover why animals do what they do based on their genes physiologies cultures traditions survival and mating advantages and evolutionary histories and find out how studying behavior in the animal world helps us understand human behavior The three volumes of Animal Behavior How and Why Animals Do the Things They Do cover the breadth of the field addressing causation development function and evolution in a wide range of animals from invertebrates to humans Inspired by Nobel laureate Nikolaas Tinbergen s work the first two volumes follow Tinbergen s four classic questions of animal behavior while the third volume supplies integrated examples of Tinbergen s investigative process applied in specific cases Written in an engaging accessible manner ideal for college students as well as general audiences this evidence based collection provides a fascinating tour of animal behaviorists findings such as how animal communication can be truthful or deceitful the deadly serious business behind clashes in the battle of the sexes and how documentation of animal behavior can lead to a deeper understanding of human behavior Each chapter provides both historical background and information about current developments in animal behavior knowledge      *Bird Love* Wenfei Tong, 2020-03-03 Exploring the sex life of birds and their wide range of fascinating mating and parenting habits this comprehensive study gives you a detailed insight into bird family life Discover the amazing array of courtship techniques employed by birds around the world such as ospreys bringing gifts of food in exchange for sex male skylarks performing aerial acrobatics to impress females or long tailed widowbirds showing off their tails to advertise the quality of their genes But it s not all about males seeking to impress or dominate females sex roles can be reversed and the book includes examples such as the black coucal whose females leave the males to perform all childcare duties The essential guide to bird family life Bird Love is richly illustrated with stunning colour photographs and regular Backyard Bird boxes in each chapter showcase familiar species from around the world There is also an index and further reading at the back of the book for those wanting to learn more about the many different species of birds in this book Bird Love covers a whole host of unique bird mating and parenting habits from practical to peculiar and is divided into sections on Ecology and Mating Systems Courtship Nests and Eggs Raising Chicks Sex Role Reversals Group Breeding Brood Parasitism From female hornbills who seal themselves in to their tree hollow nests relying on their mates to deliver food through a narrow slit to the eclectus parrots of Melanesia whose females fight each other to secure a home due to the limited availability of nesting spots and who can if succesful enjoy up to seven mates this book is filled with wild stories of the lengths birds will go to survive and thrive in the wild Varying levels of parental care are revealed from both parents having to provide constant care to allowing an insurance chick to die to ensure at least one survives And either sex can desert the nest in search of further matings to secure another clutch of chicks and the continuation of their family line Brood parasitism where birds such as cuckoos and cowbirds lay their eggs in other birds

nests takes absentee parenting to the extreme and the book explores how these species have evolved to delegate all parental care. Alongside it also shows how host species have cleverly developed a wide range of tactics to defend their nests and their own families. This complete guide is the ultimate study in the mating and parenting lives of birds of all kinds and is the perfect gift for either a seasoned ornithologist or an amateur bird fancier. Stunning photographs accompany the deep scientific knowledge of author Wenfei Tong making this a must have for anyone interested in avian life. Cooperation and Coordination in the Family James L. Savage, Camilla A. Hinde, Rufus A. Johnstone, 2021-04-23

**Mammal Societies** Tim Clutton-Brock, 2016-04-20 The book aims to integrate our understanding of mammalian societies into a novel synthesis that is relevant to behavioural ecologists, ecologists and anthropologists. It adopts a coherent structure that deals initially with the characteristics and strategies of females before covering those of males, cooperative societies and hominid societies. It reviews our current understanding both of the structure of societies and of the strategies of individuals; it combines coverage of relevant areas of theory with coverage of interspecific comparisons, intraspecific comparisons and experiments; it explores both evolutionary causes of different traits and their ecological consequences and it integrates research on different groups of mammals with research on primates and humans and attempts to put research on human societies into a broader perspective. Birds and Habitat Robert J. Fuller, 2012-11-08 Synthesises important concepts, patterns and issues relating to avian habitat selection drawing on examples from Europe, North America and Australia.

*How Birds Evolve* Douglas J. Futuyma, 2024-10-29 Why are male birds often so brightly colored? Why do some birds lay more eggs than others? Will bird species adapt to climate change? In *How Birds Evolve* Douglas Futuyma invites readers into the amazing world of bird evolution to answer these and other questions. Futuyma's goal in this book is not to offer a comprehensive evolutionary history of birds but to explore how the processes of evolution produced the distinctive features and behaviors we observe in birds today as well as their impressive diversity. Using one or two birds per chapter as a lens into broader questions, Futuyma explores how a bird's evolutionary history helps us understand the diversity of species and the bird tree of life and how natural selection explains most of the characteristics of birds from how populations adapt to sexual selection and birds' amazing social behavior. Futuyma concludes by discussing the future of birds, particularly patterns of extinction and whether they can adapt to a changing climate. Ultimately Futuyma wants readers to see that evolutionary biology helps us to better understand birds and that the reverse is also true: studies of birds have informed almost every aspect of evolutionary biology from Darwin to today.

*The Evolution of Parental Care* Nick J. Royle, Per T. Smiseth, Mathias Kölliker, 2012-08-09 Parental care includes a wide variety of traits that enhance offspring development and survival. This novel book provides a fresh perspective on the current state of the study of the evolution of parental care written by some of the top researchers in the field and taking a broad taxonomic approach.



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