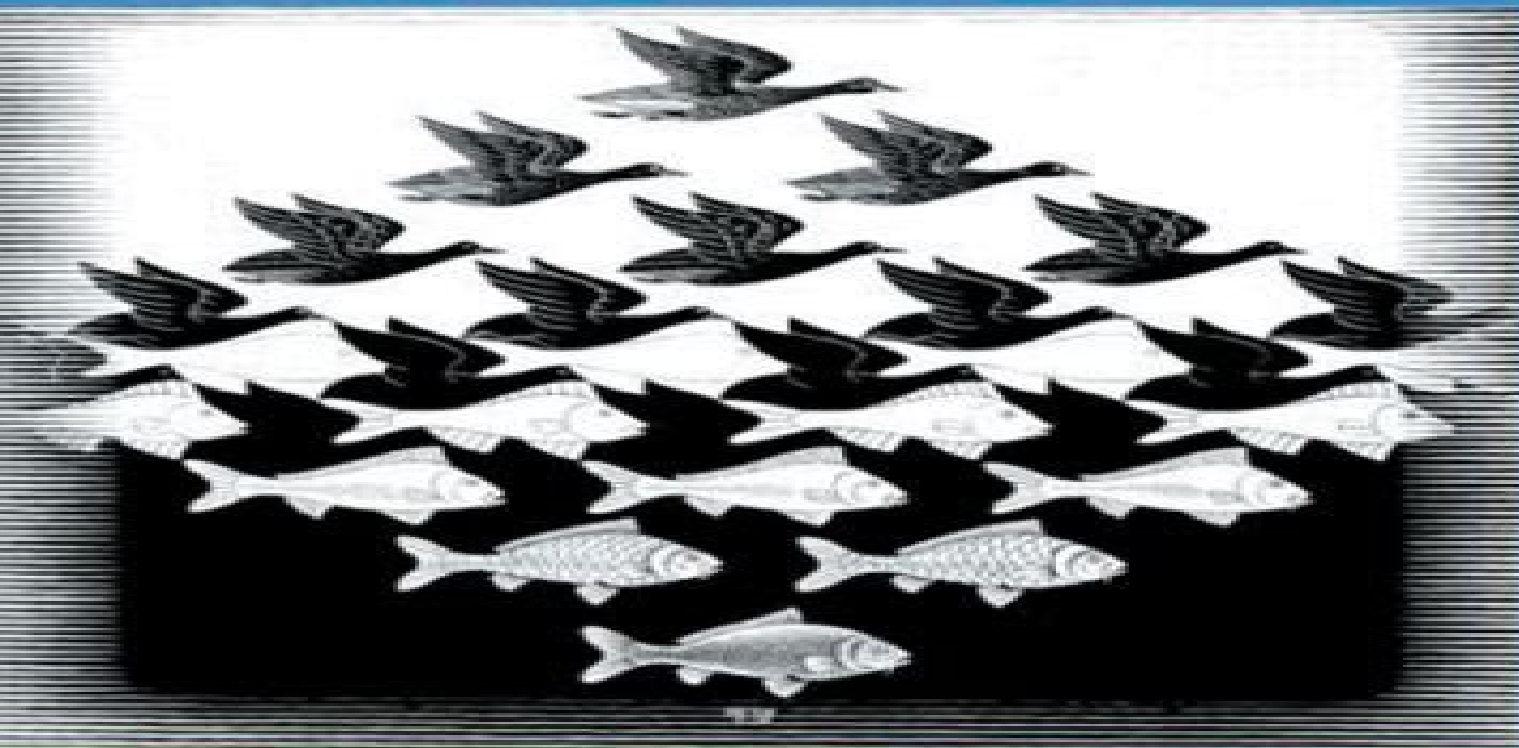


# Morphology, Shape and Phylogeny

Edited by Norman MacLeod and Peter L. Forey



# Morphology Shape And Phylogeny

**Tod F. Stuessy**



## **Morphology Shape And Phylogeny:**

Morphology, Shape and Phylogeny Norman MacLeod, Peter L. Forey, 2002-02-07 Generally biologists and mathematicians who study the shape and form of organisms have largely been working in isolation from those who work on evolutionary relationships through the analysis of common characteristics. Increasingly, however, dialogue between the two communities is beginning to develop, but other than a handful of journal papers, there has been no formal published discussion on this subject. This timely book summarises the interdisciplinary work that has taken place and will stimulate additional research into these topics. Any scientist working on evolutionary relationships will find this volume invaluable. **Morphometrics** Ashraf M.T. Elewa, 2013-03-09 Morphometrics is one of the most dynamic and popular fields on the contemporary biological scene. Focusing as it does on the quantitative characterization and analysis of morphological data, students increasingly see morphometrics as a necessary complement to molecular studies in their quests to understand the origin and maintenance of biodiversity. Moreover, morphometrics has recently been shown to have direct utility in phylogenetic contexts by both finding new and sharpening the definition of old character states. At this juncture in the field's development, a more up-to-date and thorough treatment of the use of morphometric procedures in a wide variety of contexts is needed. The book in hand, Morphometrics, provides such answers to real-world questions for real-world systematists. The Evolution of Phylogenetic Systematics Andrew Hamilton, 2013-11-09 The Evolution of Phylogenetic Systematics aims to make sense of the rise of phylogenetic systematics: its methods, its objects of study, and its theoretical foundations, with contributions from historians, philosophers, and biologists. This volume articulates an intellectual agenda for the study of systematics and taxonomy in a way that connects classification with larger historical themes in the biological sciences, including morphology, experimental and observational approaches, evolution, biogeography, debates over form and function, character transformation, development, and biodiversity. It aims to provide frameworks for answering the question: how did systematics become phylogenetic? From Observations to Optimal Phylogenetic Trees Pablo A. Goloboff, 2022-07-22 Taxonomists specializing in different groups once based phylogenetic analysis only on morphological data; molecular data was used more rarely. Although molecular systematics is routine today, the use of morphological data continues to be important, especially for phylogenetic placement of many taxa known only from fossils and rare or difficult to collect species. In addition, morphological analyses help identify potential biases in molecular analyses. And finally, scenarios with respect to morphology continue to motivate biologists: the beauty of a cheetah or a baobab does not lie in their DNA sequence but instead on what they are and do. This book is an up-to-date revision of methods and principles of phylogenetic analysis of morphological data. It is also a general guide for using the computer program TNT in the analysis of such data. The book covers the main aspects of phylogenetic analysis and general methods to compare classifications derived from molecules and morphology. The basic aspects of molecular analysis are covered only as needed to highlight the differences with methods and assumptions for analysis of morphological datasets.

**Morphometrics with R** Julien Claude, 2008-12-15 This book aims to explain how to use R to perform morphometrics Morphometric analysis is the study of shape and size variations and covariations and their covariations with other variables Morphometrics is thus deeply rooted within statistical sciences While most applications concern biology morphometrics is becoming common tools used in archeological palaeontological geographical or medicine disciplines Since the recent formalizations of some of the ideas of predecessors such as Darcy Thompson and thanks to the development of computer technologies and new ways for appraising shape changes and variation morphometrics have undergone and are still undergoing a revolution Most techniques dealing with statistical shape analysis have been developed in the last three decades and the number of publications using morphometrics is increasing rapidly However the majority of these methods cannot be implemented in available software and therefore prospective students often need to acquire detailed knowledge in informatics and statistics before applying them to their data With acceleration in the accumulation of methods accompanying the emerging science of statistical shape analysis it is becoming important to use tools that allow some autonomy R easily helps fulfill this need R is a language and environment for statistical computing and graphics Although there is an increasing number of computer applications that perform morphometrics using R has several advantages that confer to users considerable power and possible new horizons in a world that requires rapid adaptability

**Interpreting the Past** Daniel Lieberman, Richard W. Smith, Jay Kelley, 2005-11-01 This volume published in honor of the occasion of David Pilbeam's 65th birthday covers major topics in human primate and mammalian evolution mostly from the Miocene to the present The papers emphasize novel interpretations of several key areas of longstanding interest and importance including Miocene biogeography and hominoid evolution the origins of hominids and new interpretations of the hominid fossil record In terms of content most of the papers tackle key issues in the evolution of hominoids and hominids in terms of systematic paleoenvironmental and behavioral questions More broadly however the papers explore the epistemological problems of how one interprets the past from the available data

**Phylogenetics** E. O. Wiley, Bruce S. Lieberman, 2011-10-11 The long awaited revision of the industry standard on phylogenetics Since the publication of the first edition of this landmark volume more than twenty five years ago phylogenetic systematics has taken its place as the dominant paradigm of systematic biology It has profoundly influenced the way scientists study evolution and has seen many theoretical and technical advances as the field has continued to grow It goes almost without saying that the next twenty five years of phylogenetic research will prove as fascinating as the first with many exciting developments yet to come This new edition of Phylogenetics captures the very essence of this rapidly evolving discipline Written for the practicing systematist and phylogeneticist it addresses both the philosophical and technical issues of the field as well as surveys general practices in taxonomy Major sections of the book deal with the nature of species and higher taxa homology and characters trees and tree graphs and biogeography the purpose being to develop biologically relevant species character tree and biogeographic concepts that can be applied

fruitfully to phylogenetics The book then turns its focus to phylogenetic trees including an in depth guide to tree building algorithms Additional coverage includes Parsimony and parsimony analysis Parametric phylogenetics including maximum likelihood and Bayesian approaches Phylogenetic classification Critiques of evolutionary taxonomy phenetics and transformed cladistics Specimen selection field collecting and curating Systematic publication and the rules of nomenclature Providing a thorough synthesis of the field this important update to Phylogenetics is essential for students and researchers in the areas of evolutionary biology molecular evolution genetics and evolutionary genetics paleontology physical anthropology and zoology *Paleontological Data Analysis* Øyvind Hammer, David A. T. Harper, 2024-03-05 PALEONTOLOGICAL DATA ANALYSIS An up to date edition of the indispensable guide to analysing paleontological data Paleontology has developed in recent decades into an increasingly data driven discipline which brings to bear a huge variety of statistical tools Applying statistical methods to paleontological data requires a discipline specific understanding of which methods and parameters are the most appropriate ones and how to account for statistical bias inherent in the fossil record By guiding the reader to these and other fundamental questions in the statistical analysis of fossilized specimens Paleontological Data Analysis has become the standard text for anyone with an interest in quantitative analysis of the fossil record Now fully updated to reflect the latest statistical methods and disciplinary advances it is an essential tool for practitioners and students alike Readers of the second edition of Paleontological Data Analysis readers will also find New sections on machine learning Bayesian inference phylogenetic comparative methods analysis of CT data and much more New use cases and examples using PAST R and Python software packages Full color illustrations throughout Paleontological Data Analysis is ideal for paleontologists evolutionary biologists taxonomists and students in any of these fields **Modern Phylogenetic Comparative Methods and Their Application in Evolutionary Biology** László Zsolt Garamszegi, 2014-07-29 Phylogenetic comparative approaches are powerful analytical tools for making evolutionary inferences from interspecific data and phylogenies The phylogenetic toolkit available to evolutionary biologists is currently growing at an incredible speed but most methodological papers are published in the specialized statistical literature and many are incomprehensible for the user community This textbook provides an overview of several newly developed phylogenetic comparative methods that allow to investigate a broad array of questions on how phenotypic characters evolve along the branches of phylogeny and how such mechanisms shape complex animal communities and interspecific interactions The individual chapters were written by the leading experts in the field and using a language that is accessible for practicing evolutionary biologists The authors carefully explain the philosophy behind different methodologies and provide pointers mostly using a dynamically developing online interface on how these methods can be implemented in practice These conceptual and practical materials are essential for expanding the qualification of both students and scientists but also offer a valuable resource for educators Another value of the book are the accompanying online resources available at <http://www.mpcm-evolution.com> where the authors post and permanently update

practical materials to help embed methods into practice

**The Comparative Approach in Evolutionary Anthropology and Biology** Charles L. Nunn, 2011-11-30 And when new fossils are found such as those of the tiny humans of Flores scientists compare these remains to other fossils and contemporary humans

**Pleurocarpous Mosses** Angela E. Newton, Raymond S. Tangney, 2007-04-13 The shift from traditional taxonomic methods to data oriented analytical cladistic methodologies has led to a better understanding of biological processes and more accurate classifications for a wide range of organisms including mosses

**Pleurocarpous Mosses Systematics and Evolution** explores the impact of these methods through recent breakthrough

**Palaeogeography and Palaeobiogeography: Biodiversity in Space and Time** Paul Upchurch, Alistair J. McGowan, Claire S.C. Slater, 2011-10-24 Biogeography represents one of the most complex and challenging aspects of macroevolutionary research requiring input from both the earth and life sciences Palaeogeographic reconstruction is frequently carried out by researchers with backgrounds in geology and palaeontology who are less likely to be familiar with the latest biogeographic technique

**Plant Taxonomy** Tod F. Stuessy, 2009 The field of plant taxonomy has transformed rapidly over the past fifteen years especially with regard to improvements in cladistic analysis and the use of new molecular data The second edition of this popular resource reflects these far reaching and dramatic developments with more than 3 000 new references and many new figures Synthesizing current research and trends Plant Taxonomy now provides the most up to date overview in relation to monographic biodiversity and evolutionary studies and continues to be an essential resource for students and scholars This text is divided into two parts Part 1 explains the principles of taxonomy including the importance of systematics characters concepts of categories and different approaches to biological classification Part 2 outlines the different types of data used in plant taxonomic studies with suggestions on their efficacy and modes of presentation and evaluation This section also lists the equipment and financial resources required for gathering each type of data References throughout the book illuminate the historical development of taxonomic terminology and philosophy while citations offer further study Plant Taxonomy is also a personal story of what it means to be a practicing taxonomist and to view these activities within a meaningful conceptual framework Tod F Stuessy recalls the progression of his own work and shares his belief that the most creative taxonomy is done by those who have a strong conceptual grasp of their own research

**Morphometrics for Nonmorphometricians** Ashraf M.T. Elewa, 2010-06-09 This introduction to morphometrics does not rely on complex mathematics and statistics It includes application case studies in fields ranging from paleontology to evolutionary ecology and it discusses software for analyzing and comparing shape

**Automated Taxon Identification in Systematics** Norman MacLeod, 2007-07-23 The automated identification of biological objects or groups has been a dream among taxonomists and systematists for centuries However progress in designing and implementing practical systems for fully automated taxon identification has been frustratingly slow Regardless the dream has never died Recent developments in computer architectures and

**Decapod Crustacean Phylogenetics** Joel W. Martin, Keith A.

Crandall,Darryl L. Felder,2016-04-19 Decapod crustaceans are of tremendous interest and importance evolutionarily ecologically and economically There is no shortage of publications reflecting the wide variety of ideas and hypotheses concerning decapod phylogeny but until recently the world s leading decapodologists had never assembled to elucidate and discuss relationships among The New Taxonomy Quentin D. Wheeler,2008-04-09 A Fresh Look at Taxonomy The most fundamental of all biological sciences taxonomy underpins any long term strategies for reconstructing the great tree of life or salvaging as much biodiversity as possible Initiatives reinventing taxonomy for the Internet age are leading to a resurgence in this once declining discipline In this volume we witness the emergence of cybertaxonomy a convergence of descriptive taxonomy with information science and computer engineering Featuring a new paradigm of international teamwork The New Taxonomy presents a roadmap for confronting the biodiversity crisis Some have seen the confusion of pattern and process that followed Huxley s 1940 The New Systematics as the beginning of decline for support of taxonomy In this answer to Huxley contemporary taxonomists reclaim the unique mission goals and importance of taxonomy as an independent science

Geometric Morphometrics for Biologists Miriam Zelditch,Donald L. Swiderski,H. David Sheets,2012-08-02 The first edition of Geometric Morphometrics for Biologists has been the primary resource for teaching modern geometric methods of shape analysis to biologists who have a stronger background in biology than in multivariate statistics and matrix algebra These geometric methods are appealing to biologists who approach the study of shape from a variety of perspectives from clinical to evolutionary because they incorporate the geometry of organisms throughout the data analysis The second edition of this book retains the emphasis on accessible explanations and the copious illustrations and examples of the first updating the treatment of both theory and practice The second edition represents the current state of the art and adds new examples and summarizes recent literature as well as provides an overview of new software and step by step guidance through details of carrying out the analyses Contains updated coverage of methods especially for sampling complex curves and 3D forms and a new chapter on applications of geometric morphometrics to forensics Offers a reorganization of chapters to streamline learning basic concepts Presents detailed instructions for conducting analyses with freely available easy to use software Provides numerous illustrations including graphical presentations of important theoretical concepts and demonstrations of alternative approaches to presenting results *Carnivoran Evolution* Anjali Goswami,Anthony Friscia,2010-07-29 Members of the mammalian clade Carnivora have invaded nearly every continent and ocean evolving into bamboo eating pandas clam eating walruses and of course flesh eating sabre toothed cats With this ecological morphological and taxonomic diversity and a fossil record spanning over sixty million years Carnivora has proven to be a model clade for addressing questions of broad evolutionary significance This volume brings together top international scientists with contributions that focus on current advances in our understanding of carnivoran relationships ecomorphology and macroevolutionary patterns Topics range from the palaeoecology of the earliest fossil carnivorans to the influences of competition and constraint on diversity and

biogeographic distributions Several studies address ecomorphological convergences among carnivorans and other mammals with morphometric and Finite Element analyses while others consider how new molecular and palaeontological data have changed our understanding of carnivoran phylogeny Combined these studies also illustrate the diverse suite of approaches and questions in evolutionary biology and palaeontology

**Refining Phylogenetic Analyses** Pablo A. Goloboff, 2022-07-22

This volume discusses the aspects of a phylogenetic analysis that go beyond basic calculation of most parsimonious trees Practical application of all principles discussed is illustrated by reference to TNT a freely available software package that can perform all the steps needed in a phylogenetic analysis The first problem considered is how to summarize and compare multiple trees including identification and handling wildcard taxa Evaluation of the strength of support for groups another critical component of any phylogenetic analysis is given careful consideration The different interpretations of measures of support are discussed and connected with alternative implementations The book reviews rationales for estimating character reliability on the basis of homoplasy with particular attention to morphological characters The main methods for character weighting and their practical implementation several of them unique to TNT are discussed ad libitum Also unique to TNT is the ability to directly analyze morphometric data including landmarks on the same footing as discrete characters Finally the scripting language of TNT is introduced With scripting it is possible to program TNT to create personalized routines and automate complex calculations taking analyses to the next level and allowing exploration of new methods and ideas

**Key Features**

- Discusses the treatment of ambiguity in phylogenetic analyses in depth for summarizing results or comparing trees
- Reviews literature on arguments and methods for weighting morphological characters and their practical application
- Describes theory and application of methods for evaluating strength of group support based on either resampling or comparisons with suboptimal trees
- Discusses the use of morphometric characters in phylogenetic analysis
- Presents extensive information on commands and options of the TNT computer program including the use and creation of scripts

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