# Vertebrate Carcasses and their Paleobiological Implications



# Johannes Weigelt

Translated by Judith Schaefer

Foreword by Anna K. Behrensmeyer and Catherine Badgley

# Recent Vertebrate Carcasses And Their Paleobiological Implications

**Barry Lopez** 

#### **Recent Vertebrate Carcasses And Their Paleobiological Implications:**

Recent Vertebrate Carcasses and Their Paleobiological Implications Johannes Weigelt, 1989-08-09 The first English translation of Johannes Weigelt's 1927 classic makes available the seminal work in taphonomy the study of how organisms die decay become entombed in sediments and fossilize over time Weigelt emphasized the importance of empirical work and made extensive observations of modern carcasses on the Texas Gulf Coast He applied the results to evidence from the fossil record and demonstrated that an understanding of the postmortem fate of modern animals is crucial to making sound inferences about fossil vertebrate assemblages and their ecological communities Weigelt spent sixteen months on the Gulf Coast in the mid 1920s gathering evidence from the carcasses of cattle and other animals in the early stages of preservation This book reports his observations He discusses death and decomposition classifies various modes of death drowning cold dehydration fire mud quicksand oil slicks etc documents and analyzes the positions of carcasses presents detailed data on carcass assemblages at the Smither's Lake site in Texas and in a final chapter makes comparisons to carcass assemblages from the geologic past He raises questions about whether much of the fossil record is a product of unusual events and if so what the implications are for paleoecological studies The English edition of Recent Vertebrate Carcasses includes a foreword and a translator s note that comment on Weigelt s life and the significance of his work The original bibliography has been brought up to date and where necessary updated scientific and place names have been added to the text in brackets An index of names places and subjects is included and Weigelt's own photographs of carcasses and drawings of skeletons illustrate the Recent Vertebrate Carcasses and Their Paleobiological Implications Johannes Weigelt, 2009-02-25 The first English text translation of Johannes Weigelt's 1927 classic makes available the seminal work in taphonomy the study of how organisms die decay become entombed in sediments and fossilize over time Weigelt emphasized the importance of empirical work and made extensive observations of modern carcasses on the Texas Gulf Coast He applied the results to evidence from the fossil record and demonstrated that an understanding of the postmortem fate of modern animals is crucial to making sound inferences about fossil vertebrate assemblages and their ecological communities Weigelt spent sixteen months on the Gulf Coast in the mid 1920s gathering evidence from the carcasses of cattle and other animals in the early stages of preservation This book reports his observations He discusses death and decomposition classifies various modes of death drowning cold dehydration fire mud quicksand oil slicks etc documents and analyzes the positions of carcasses presents detailed data on carcass assemblages at the Smither's Lake site in Texas and in a final chapter makes comparisons to carcass assemblages from the geologic past He raises questions about whether much of the fossil record is a product of unusual events and if so what the implications are for paleoecological studies The English edition of Recent Vertebrate Carcasses includes a foreword and a translator s note that comment on Weigelt's life and the significance of his work. The original bibliography has been brought up to date and where necessary updated scientific and place names have been added to the text in brackets An index

of names places and subjects is included and Weigelt's own photographs of carcasses and drawings of skeletons illustrate the A Reanalysis of Acrocanthosaurus atokensis, its Phylogenetic Status, and Paleobiogeographic Implications, Based on a New Specimen from Texas Jerald David Harris, 1998 Feathered Dragons Philip J. Currie, 2004 The setting Osteology and Ichnology Eggs nests feathers and flight Encyclopedia of Forensic and Legal Medicine, 2015-09-29 Encyclopedia of Forensic and Legal Medicine Volumes 1 4 Second Edition is a pioneering four volume encyclopedia compiled by an international team of forensic specialists who explore the relationship between law medicine and science in the study of forensics This important work includes over three hundred state of the art chapters with articles covering crime solving techniques such as autopsies ballistics fingerprinting hair and fiber analysis and the sophisticated procedures associated with terrorism investigations forensic chemistry DNA and immunoassays Available online and in four printed volumes the encyclopedia is an essential reference for any practitioner in a forensic medical healthcare legal judicial or investigative field looking for easily accessible and authoritative overviews on a wide range of topics Chapters have been arranged in alphabetical order and are written in a clear and concise manner with definitions provided in the case of obscure terms and information supplemented with pictures tables and diagrams Each topic includes cross referencing to related articles and case studies where further explanation is required along with references to external sources for further reading Brings together all appropriate aspects of forensic medicine and legal medicine Contains color figures sample forms and other materials that the reader can adapt for their own practice Also available in an on line version which provides numerous additional reference and research tools additional multimedia and powerful search functions Each topic includes cross referencing to related articles and case studies where further explanation is required along with references to external sources for further reading Skeleton Keys Riley Black (Brian Switek), 2020-03-03 A provocative and entertaining magical mineral tour through the life and afterlife of bone Wall Street Journal Our bones have many stories to tell if you know how to listen Bone is a marvel an adaptable and resilient building material developed over more than four hundred million years of evolutionary history It gives your body its shape and the ability to move It grows and changes with you an undeniable document of who you are and how you lived Arguably no other part of the human anatomy has such rich scientific and cultural significance both brimming with life and a potent symbol of death In this delightful natural and cultural history of bone Brian Switek explains where our skeletons came from what they do inside us and what others can learn about us when these artifacts of mineral and protein are all we ve left behind Bone is as embedded in our culture as it is in our bodies Our species has made instruments and jewelry from bone treated the dead like collectors items put our faith in skull bumps as quides to human behavior and arranged skeletons into macabre tributes to the afterlife Switek makes a compelling case for getting better acquainted with our skeletons in all their surprising roles Bridging the worlds of paleontology anthropology medicine and forensics Skeleton Keys illuminates the complex life of bones inside our bodies and out Advances in

Forensic Taphonomy William D. Haglund, Marcella H. Sorg, 2001-07-30 Liberally illustrated with photographs maps and other images Advances in Forensic Taphonomy Method Theory and Archaeological Perspectives offers modern techniques for obtaining clues from postmortem evidence This bestselling reference examines techniques in recovery and analysis coverage of mass grave investigation applications of nuclear and mitochondrial DNA techniques interpretation of burned human remains the discrimination of trauma from postmortem change and taphonomic interpretation of water deaths both at the scene and in the lab It also discusses microenvironmental variation and decomposition in different environments as well as geochemical and entomological analysis Spying on Whales Nick Pyenson, 2019-06-25 A palaeontological howdunnit Spying on Whales captures the excitement of seeking answers to deep questions in cetacean science Nature Called the best of science writing Edward O Wilson and named a best book by Popular Science a dive into the secret lives of whales from their four legged past to their perilous present Whales are among the largest most intelligent deepest diving species to have ever lived on our planet They evolved from land roaming dog sized creatures into animals that move like fish breathe like us can grow to 300 000 pounds live 200 years and travel entire ocean basins Whales fill us with terror awe and affection yet there is still so much we don't know about them Why did it take whales over 50 million years to evolve to such big sizes and how do they eat enough to stay that big How did their ancestors return from land to the sea and what can their lives tell us about evolution as a whole Importantly in the sweepstakes of human driven habitat and climate change will whales survive Nick Pyenson's research has given us the answers to some of our biggest questions about whales He takes us deep inside the Smithsonian's unparalleled fossil collections to frigid Antarctic waters and to the arid desert in Chile where scientists race against time to document the largest fossil whale site ever found Full of rich storytelling and scientific discovery Spying on Whales spans the ancient past to an uncertain future all to better understand the most enigmatic creatures on Earth **Companion to Forensic Anthropology** Dennis Dirkmaat, 2015-04-20 A Companion to Forensic Anthropology presents the most comprehensive assessment of the philosophy goals and practice of forensic anthropology currently available with chapters by renowned international scholars and experts Highlights the latest advances in forensic anthropology research as well as the most effective practices and techniques used by professional forensic anthropologists in the field Illustrates the development of skeletal biological profiles and offers important new evidence on statistical validation of these analytical methods Evaluates the goals and methods of forensic archaeology including the preservation of context at surface scattered remains buried bodies and fatal fire scenes and recovery and identification issues related to large scale mass disaster scenes and mass grave excavation **Taphonomy** Peter A. Allison, David J. Bottjer, 2010-11-03 Taphonomic bias is a pervasive feature of the fossil record A pressing concern however is the extent to which taphonomic processes have varied through the ages It is one thing to work with a biased data set and guite another to work with a bias that has changed with time This book includes work from both new and established researchers who are using laboratory field and data base techniques to

characterise and quantify the temporal and spatial variation in taphonomic bias It may not provide all the answers but it will at least shed light on the right questions Zooarchaeology Elizabeth J. Reitz, Elizabeth S. Wing, 1999-02-04 Zooarchaeology is a detailed reference manual for students and professional archaeologists interested in identifying and analysing animal remains from archaeological sites Drawing on material from all over the world and covering a time span from the Pleistocene to the nineteenth century AD the emphasis is on animals whose remains inform us about many aspects of the relationships between humans and their natural and social environments especially site formation processes subsistence strategies and paleoenvironments The authors discuss suitable methods and theories for all vertebrate classes and molluscs and include hypothetical examples to demonstrate these There are extensive references and illustrations to help in the process of identification Forensic Dentistry Paul G. Stimson, Curtis A. Mertz, 2002-01-01 Identification of unknown individuals and the determination of their age race and sex is one of the most important functions of forensic dentistry Throughout history this procedure has been used to establish difficult identifications including Adolph Hitler Eva Braun Lee Harvey Oswald and actor William Holden Other essential applications of forensic dentistry include mass disaster investigations evaluating bite marks and bitemark evidence in death investigations child abuse investigations and in civil litigation for evaluating oral or temporomandibular injuries related to accidents This book explains these procedures in a comprehensive way that takes you step by step through the world of forensic dental investigations. The areas of forensic dentistry have come a long way in recent years New and unique discussions offer information that will benefit professionals faced with many of the current aspects of the science Topics include how to deal with a trial or an aggressive attorney and how to assess buried crime scene evidence the application of forensic geotaphonomy in forensic archaeology Forensic Dentistry illustrates the proper handling and evaluation of dental evidence Its broad coverage also includes important information for legal and police science professionals who must properly evaluate and present dental findings This book covers all standard examination practices of dental evidence including identification of unknown individuals age race sex Whether you are a medical examiner or a pathologist who needs to know about the proper handling and evaluation of dental evidence a legal or police science professional who needs to know how to deal with the proper presentation of dental findings in a court of law or a dentist who wants to use your training and experience in a unique interesting and challenging way this Taphonomy Ronald E. Martin, 1999-10-28 Taphonomy A Process Approach is the first book to review the book is for you entire field of taphonomy or the science of fossil preservation It describes the formation of animal and plant fossils in marine and terrestrial settings and how this affects deciphering the ecology and extinction of past lifeforms and the environments in which they lived The volume emphasises a process approach to taphonomy and reviews the taphonomic behaviour of all important taxa plant and animal It will be useful to anyone interested in the preservation of fossils and the formation of fossil assemblages but it is aimed primarily at advanced students and professionals working in paleontology stratigraphy

sedimentology climate modeling and biogeochemistry Manual of Forensic Taphonomy James T. Pokines, Ericka N. L'Abbe, Steven A. Symes, 2021-12-30 The main goals in any forensic skeletal analysis are to answer who is the person represented individualization how that person died trauma pathology and when that person died the postmortem interval or PMI The analyses necessary to generate the biological profile include the determination of human nonhuman or nonosseous origin the minimum number of individuals represented age at death sex stature ancestry perimortem trauma antemortem trauma osseous pathology odontology and taphonomic effects the postmortem modifications to a set of remains The Manual of Forensic Taphonomy Second Edition covers the fundamental principles of these postmortem changes encountered during case analysis Taphonomic processes can be highly destructive and subtract information from bones regarding their utility in determining other aspects of the biological profile but they also can add information regarding the entire postmortem history of the remains and the relative timing of those effects The taphonomic analyses outlined provide guidance on how to separate natural agencies from human caused trauma These analyses are also performed in conjunction with the field processing of recovery scenes and the interpretation of the site formation and their postdepositional history. The individual chapters categorize these alterations to skeletal remains illustrate and explain their significance and demonstrate differential diagnosis among them Such observations may then be combined into higher order patterns to aid forensic investigators in determining what happened to those remains in the interval from death to analysis including the environment s in which the remains were deposited including buried terrestrial surface marine freshwater or cultural contexts Features Provides nearly 300 full color illustrations of both common and rare taphonomic effects to bones derived from actual forensic cases Presents new research including experimentation on recovery rates during surface search timing of marine alterations trophy skulls taphonomic laboratory and field methods laws regarding the relative timing of taphonomic effects reptile taphonomy human decomposition and microscopic alterations by invertebrates to bones Explains and illustrates common taphonomic effects and clarifies standard terminology for uniformity and usage within in the field While the book is primarily focused upon large vertebrate and specifically human skeletal remains it effectively synthesizes data from human ethological geological paleontological paleoanthropological archaeological artifactual and zooarchaeological studies Since these taphonomic processes affect other vertebrates in similar manners The Manual of Forensic Taphonomy Second Edition will be invaluable to a broad set of forensic and investigative disciplines Manual of Forensic Taphonomy James Pokines, Steven A. Symes, 2013-10-08 Forensic taphonomy is the study of the postmortem changes to human remains focusing largely on environmental effects including decomposition in soil and water and interaction with plants insects and other animals While other books have focused on subsets such as forensic botany and entomology Manual of Forensic Taphonomy is the first update of Case Studies in Environmental Archaeology Elizabeth Reitz, C. Margaret Scarry, Sylvia J. Scudder, 2008 This book highlights studies addressing significant anthropological issues in the Americas from the perspective of environmental

archaeology The book uses case studies to resolve questions related to human behavior in the past rather than to demonstrate the application of methods Each chapter is an original or revised work by an internationally recognized scientist. This second edition is based on the 1996 book of the same title The editors have invited back a number of contributors from the first edition to revise and update their chapter New studies are included in order to cover recent developments in the field or additional pertinent topics. An Introduction to Zooarchaeology Diane Gifford-Gonzalez,2018-04-03 This volume is a comprehensive critical introduction to vertebrate zooarchaeology the field that explores the history of human relations with animals from the Pliocene to the Industrial Revolution The book is organized into five sections each with an introduction that leads the reader systematically through this swiftly expanding field Section One presents a general introduction to zooarchaeology key definitions and an historical survey of the emergence of zooarchaeology in the Americas Europe Asia and Africa and introduces the conceptual approach taken in the book This volume is designed to allow readers to integrate data from the book along with that acquired elsewhere within a coherent analytical framework Most of its chapters take the form of critical review articles providing a portal into both the classic and current literature and contextualizing these with original commentary Summaries of findings are enhanced by profuse illustrations by the author and others

Seismosaurus David Gillette, Mark Hallett, 2010-06-01 The first book to clearly explain the science used by paleontologists and the new cutting edge techniques that led to the discovery of Seismosaurus the longest dinosaur yet known and possibly the largest land animal to have ever lived The book also illustrates the exciting collaboration between Gillette the chemists and physicists who helped to reconstruct Seismosaurus Horizon Barry Lopez, 2019-03-19 ONE OF THE BEST BOOKS OF THE YEAR THE NEW YORK TIMES NPR THE GUARDIAN From pole to pole and across decades of lived experience National Book Award winning author Barry Lopez delivers his most far ranging yet personal work to date Horizon moves indelibly immersively through the author s travels to six regions of the world from Western Oregon to the High Arctic from the Gal pagos to the Kenyan desert from Botany Bay in Australia to finally unforgettably the ice shelves of Antarctica Along the way Lopez probes the long history of humanity s thirst for exploration including the prehistoric peoples who trekked across Skraeling Island in northern Canada the colonialists who plundered Central Africa an enlightenment era Englishman who sailed the Pacific a Native American emissary who found his way into isolationist Japan and today s ecotourists in the tropics And always throughout his journeys to some of the hottest coldest and most desolate places on the globe Lopez searches for meaning and purpose in a broken world

A Wild Discouraging Mess Julie Johnson, 2003

The Top Books of the Year Recent Vertebrate Carcasses And Their Paleobiological Implications The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Recent Vertebrate Carcasses And Their Paleobiological Implications: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Recent Vertebrate Carcasses And Their Paleobiological Implications: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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