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Clive L.N. Ruggles
Editor

Handbook of Archaeoastronomy and Ethnoastronomy



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Handbook Of Archaeoastronomy And Ethnoastronomy

**Steven Gullberg, Cesar Augusto Zen
Vasconcellos**



Handbook Of Archaeoastronomy And Ethnoastronomy:

Handbook of Archaeoastronomy and Ethnoastronomy Clive L.N. Ruggles, 2014-08-16 How human communities interpret what they perceive in the sky is vital in fulfilling humankind's most basic need to comprehend the universe it inhabits both from a modern scientific perspective and from countless other cultural standpoints extending right back to early prehistory Archaeoastronomy which is concerned with cultural perceptions and understandings of astronomical phenomena is a rich cross disciplinary field The central aim of Handbook of Archaeoastronomy is to provide a reliable source for theory method interpretation and best practices that will give a definitive picture of the state of the art research in this field for serious scholars regardless of the discipline s in which they are qualified It will be equally suitable for those already contributing to the field and those interested in entering it Also included are studies in ethnoastronomy which is concerned with contemporary practices related to astronomy particularly among modern indigenous societies A major part of this MRW is comprised of a set of wide ranging archaeoastronomical case studies both geographically and through time stretching right back to Palaeolithic days and also in terms of the types of human society and nature of their astronomical ideas and practices However these are chosen in order to best illuminate broader issues and themes rather than to attempt for example to provide systematic coverage of recent discoveries Thematic articles cover general themes such as cosmologies calendars navigation orientations and alignments and ancient perceptions of space and time They also highlight various aspects of the social context of astronomy its relationship to social power warfare etc and how we interpret astronomical practices within the framework of conceptual approaches There are also discussions of broad issues such as ethnocentrism nationalism and astronomical dating The methods and practices articles cover topics from field methodology and survey procedures to social theory as well as providing broad definitions and explanations of key concepts We are also including a number of disciplinary perspectives on approaches to archaeoastronomy written by leading figures in the constituent fields These articles cover material that generally speaking would be familiar to graduates in the relevant discipline but critically not so to those with different backgrounds

Handbook of Archaeoastronomy and Ethnoastronomy Clive L. N. Ruggles, 2015 *The Oxford Handbook of Light in Archaeology* Costas Papadopoulos, Holley Moyes, 2021-12-09 The first volume of its kind to address the impact and influence of light in different facets of archaeology from myth and ritual to houses and museum exhibitions Combines theory and methodology from archaeology anthropology architecture urban design art philology and computer science Arranged in a thematic structure based on uses of light in different spatial contexts to allow quick reference to specific aspects of light in archaeology Richly illustrated throughout Book jacket *The Oxford Handbook of Human Symbolic Evolution* Nathalie Gontier, Andy Lock, Chris Sinha, 2024-01-17 The biological and neurological capacity to symbolize and the products of behavioral cognitive sociocultural linguistic and technological uses of symbols symbolism are fundamental to every aspect of human life The Oxford Handbook of Human Symbolic Evolution explores the origins of our

characteristically human abilities our ability to speak create images play music and read and write The book investigates how symbolization evolved in human evolution and how symbolism is expressed across the various areas of human life The field is intrinsically interdisciplinary considering findings from fossil studies scientific research from primatology developmental psychology and of course linguistics Written by world leading experts thirty eight topical chapters are grouped into six thematic parts that respectively focus on epistemological psychological anthropological ethological linguistic and social technological aspects of human symbolic evolution The handbook presents an in depth but comprehensive and interdisciplinary overview of the of the state of the art in the science of human symbolic evolution This work will be of interest to academics and students active in all fields contributing to the study of human evolution

Archaeoastronomy in the Roman World Giulio Magli, Antonio César González-García, Juan Belmonte Aviles, Elio Antonello, 2019-03-27 This book explores the insights that Cultural Astronomy provides into the classical Roman world by unveiling the ways in which the Romans made use of their knowledge concerning the heavens and by shedding new light on the interactions between astronomy and heritage in ancient Roman culture Leading experts in the field present fascinating information on how and why the Romans referred to the sky when deciding upon the orientation of particular monuments temples tombs and even urban layouts Attention is also devoted to questions of broader interest such as the contribution that religious interpretation of the sky made in the assimilation of conquered peoples When one considers astronomy in the Roman world it is customary to think of the work and models of Ptolemy and perhaps the Julian calendar or even the sighting of the Star of Bethlehem However like many other peoples in antiquity the Romans interacted with the heavens in deeper ways that exerted a profound influence on their culture This book highlights the need to take this complexity into account in various areas of research and will appeal to all those who wish to learn more about the application of astronomy in the lives and architecture of the Romans

Our Moon Rebecca Boyle, 2025-06-03 LONGLISTED FOR THE NATIONAL BOOK AWARD NATIONAL BESTSELLER A riveting feat of science writing that recasts that most familiar of celestial objects into something eerily extraordinary pivotal to our history and awesome in the original sense of the word Ed Yong New York Times bestselling author of *An Immense World* WINNER OF THE LOS ANGELES TIMES BOOK PRIZE A NEW YORKER AND SMITHSONIAN BEST BOOK OF THE YEAR A New York Times Book Review Editors Choice Many of us know that the Moon pulls on our oceans driving the tides but did you know that it smells like gunpowder Or that it was essential to the development of science and religion Acclaimed journalist Rebecca Boyle takes readers on a dazzling tour to reveal the intimate role that our 4 51 billion year old companion has played in our biological and cultural evolution Our Moon s gravity stabilized Earth s orbit and its climate It drew nutrients to the surface of the primordial ocean where they fostered the evolution of complex life The Moon continues to influence animal migration and reproduction plants movements and possibly the flow of the very blood in our veins While the Sun helped prehistoric hunters and gatherers mark daily time early civilizations used the phases of the

Moon to count months and years allowing them to plan farther ahead Mesopotamian priests recorded the Moon's position in order to make predictions and in the process created the earliest known empirical scientific observations In *Our Moon* Boyle introduces us to ancient astronomers and major figures of the scientific revolution including Johannes Kepler and his influential lunar science fiction Our relationship to the Moon changed when Apollo astronauts landed on it in 1969 and it's about to change again As governments and billionaires aim to turn a profit from its resources Rebecca Boyle shows us that the Moon belongs to everybody and nobody at all

Visualising Skyscapes Liz Henty, Daniel Brown, 2019-08-19 Above the land and its horizon lies the celestial sphere that great dome of the sky which governs light and darkness critical to life itself yet its influence is often neglected in the archaeological narrative *Visualising Skyscapes* captures a growing interest in the emerging field of skyscape archaeology This powerful and innovative book returns the sky to its rightful place as a central consideration in archaeological thought and can be regarded as a handbook for further research Bookended by a foreword by archaeologist Gabriel Cooney and an afterword by astronomer Andrew Newsam its contents have a wide reaching relevance for the fields of archaeology anthropology ethnography archaeoastronomy astronomy heritage and cultural studies The volume balances six chapters on theory and methodology which elaborate on the history and practice of the field with six other chapters focused on case studies from around the world *Visualising Skyscapes* captures the growing interest in the multidisciplinary study of skylines and will be of interest to academics students and the general public as well as having international appeal It is topical timely and relevant to current debates and will hopefully stimulate further interest in this exciting and relatively new area of investigation The contributions showcase the work of distinguished academics in the field and the chapters are all enhanced by numerous photographs and images

The Incas' Sky Émile Biémont, 2024-07-12 This book introduces readers to the astonishing civilisation of the Incas Its novelty lies in its general but highly informative synthesis of their history and astronomy through the accounts of contemporary chronicles and recent archaeological findings Richly illustrated with the author's own photographs it will attract the attention of seasoned travellers interested in ancient civilisations and keen to discover what people were capable of achieving so long ago but also any reader interested in the history and prehistory of South American peoples including students or university researchers wanting to know more about the pre-Columbian civilizations of Peru The Inca civilisation was in fact the culmination of cultural contributions from a dozen or so complex pre-Columbian civilizations such as those of Chavín Nazca Wari or Tiwanaku Intensely spiritual the Inca people attributed metaphysical powers to all manner of objects and places they considered sacred but at the same time the numerous alignments in their buildings show that they result from careful observations of the Sun the Moon and the stars at different times of the year Indeed the Incas were an essentially agrarian people so time measurement and calendar devices were essential for the purely pragmatic problem of planning agricultural tasks during the tropical year The book sets out to describe the Incas in their historical and geographical context avoiding specialization or excessive technicality but retaining

a certain scientific rigor and including a detailed consideration of their interest in the sky and astronomy Archaeology and Ancient Religion in the American Midcontinent Brad H. Koldehoff, Timothy R. Pauketat, 2018-11-06 Analyses of big datasets signal important directions for the archaeology of religion in the Archaic to Mississippian Native North America Across North America huge data accumulations derived from decades of cultural resource management studies combined with old museum collections provide archaeologists with unparalleled opportunities to explore new questions about the lives of ancient native peoples For many years the topics of technology economy and political organization have received the most research attention while ritual religion and symbolic expression have largely been ignored This was often the case because researchers considered such topics beyond reach of their methods and data In Archaeology and Ancient Religion in the American Midcontinent editors Brad H Koldehoff and Timothy R Pauketat and their contributors demonstrate that this notion is outdated through their analyses of a series of large datasets from the midcontinent ranging from tiny charred seeds to the cosmic alignments of mounds they consider new questions about the religious practices and lives of native peoples At the core of this volume are case studies that explore religious practices from the Cahokia area and surrounding Illinois uplands Additional chapters explore these topics using data collected from sites and landscapes scattered along the Mississippi and Ohio River valleys This innovative work facilitates a greater appreciation for and understanding of ancient native religious practices especially their seamless connections to everyday life and livelihood The contributors do not advocate for a reduced emphasis on technology economy and political organization rather they recommend expanding the scope of such studies to include considerations of how religious practices shaped the locations of sites the character of artifacts and the content and arrangement of sites and features They also highlight analytical approaches that are applicable to archaeological datasets from across the Americas and beyond **Stonehenge** Clive Ruggles, Amanda Chadburn, 2024-04-03 Stonehenge is one of the most famous ancient monuments in the world and its solar alignment is one of its most important features Yet although archaeologists have learned a huge amount about this iconic monument and its development a sense of mystery continues about its purpose This helps fuel numerous theories and common misconceptions particularly concerning its relationship to the sky and the heavenly bodies A desire to cut through this confusion was the inspiration for this book and it fills a gaping hole in the existing literature The book provides both an introduction to Stonehenge and its landscape and an introduction to archaeoastronomy the study of how ancient peoples understood phenomena in the sky and what role the sky played in their cultures Archaeoastronomy is a specialism critical to explaining the relationship of Stonehenge and nearby monuments to the heavens but interpreting archaeoastronomical evidence has often proved highly controversial in the past Stonehenge Sighting the Sun explains why It makes clear which ideas about Stonehenge are generally accepted and which are not with clear graphics to explain complicated concepts This beautifully illustrated book shines new light on this most famous of ancient monuments and is the first in depth study of this fascinating topic suitable both for specialists and for anyone with a

general interest The volume includes a Foreword by British archaeologist and academic Professor Sir Barry Cunliffe

Advancing Cultural Astronomy Efrosyni Boutsikas, Stephen C. McCluskey, John Steele, 2021-04-08 This collection of essays on cultural astronomy celebrates the life and work of Clive Ruggles Emeritus Professor of Archaeoastronomy at Leicester University Taking their lead from Ruggles work the papers present new research focused on three core themes in cultural astronomy methodology case studies and heritage Through this framework they show how the study of cultural astronomy has evolved over time and share new ideas to continue advancing the field Ruggles work in these areas has had a profound impact on the way that scholars approach evidence of the role of sky in both ancient and modern cultures While the papers span many time periods and regions they are closely connected by these three major themes presenting methodological investigations of how we can approach archaeological textual and ethnographic evidence describing detailed

archaeoastronomical case studies or stressing the importance of global heritage management This work will appeal to researchers and scholars interested in the history and development of cultural astronomy Cultural Astronomy In Latin America Steven Gullberg, Cesar Augusto Zen Vasconcellos, 2024-02-06 This book provides a unique view of Astronomy in Culture Archaeoastronomy and Ethnoastronomy involving ancient civilizations in Latin America emphasizing scientific and cultural knowledge combined with historical cognitive archaeological and anthropological aspects Topics covered in the book include different associations of ancient civilizations with the stars and planets whether in farming architecture social organization beliefs myths religion metric systems calendar construction shrines and variations in astronomical research methods based on the types of material evidence available Special attention is paid to the war cycles associated with observed celestial events day counting calendars including movements in the sky and written evidences from codices and in particular the Andean and Inca traditions of astronomically associated shrines caves and celestial alignments of monuments and temples *Environment and Religion in Ancient and Coptic Egypt: Sensing the Cosmos through the Eyes of the Divine*

Alicia Maravelia, Nadine Guilhou, 2020-10-01 Proceedings of a conference held in Athens in 2017 this volume presents 34 fresh and original papers plus 2 abstracts on ancient Egyptian religion environment and the cosmos Papers connect many interdisciplinary approaches including Egyptology archaeology archaeoastronomy geography botany zoology ornithology theology and history The Humaniverse Guide To Better Reasoning and Decision Making Keith Seland, 2020-01-31 Do you know how thinking about the possibility of extraterrestrial life can help make better decisions in your everyday life The answer to this question will be the first of many that enlighten you and is found in the Introduction to The Humaniverse Guide to Better Reasoning and Decision Making Every person has to reconcile how to solve the many problems that arise daily in their lives These questions are structured like the hypotheses scientists use to enter into their investigations The Humaniverse Guide will immerse the reader by first demystifying the platform of science and show them the tools and methods scientists use to solve their problems answer their hypotheses Then The Humaniverse Guide engages the reader as

the research scientist forensic investigator jury and judge in an actual investigation that of the extraterrestrial hypothesis Along its course The Humaniverse Guide will raise their level of knowledge inquiry and critical thinking to help them make sense of their environment in beneficial ways they never were aware of before The reader will own these new tools and larger skill set This can later help in applications to their own life situations and to make successful decisions With these themes The Humaniverse is situated for a global audience What sets The Humaniverse apart from other recent titles such as Ancient Alien Ancestors by Will Hart Timothy Good s Earth An Alien Enterprise Forbidden Science From Ancient Technologies to Free Energy as edited by J Douglas Kenyon and John B Alexander s UFOs Myths Conspiracies and Realities is that the reader will acquire an acute awareness of the history of science learn its methods then use their new tool sets the same way scientists do That user will also analyze a more extensive and pragmatic set of raw data and evidence facts observed and collected from millions of witnesses from all walks of life throughout recorded human history This is offered to help bridge the gaps in understanding and comfort level that currently exist among the general public and both the science communities and the extraterrestrial hypothesis The abundant utilities the reader user can obtain from The Humaniverse Guide help make those everyday decisions easier to obtain and better The Parthenon Enigma Joan Breton

Connelly, 2014-01-28 Built in the fifth century b c the Parthenon has been venerated for more than two millennia as the West s ultimate paragon of beauty and proportion Since the Enlightenment it has also come to represent our political ideals the lavish temple to the goddess Athena serving as the model for our most hallowed civic architecture But how much do the values of those who built the Parthenon truly correspond with our own And apart from the significance with which we have invested it what exactly did this marvel of human hands mean to those who made it In this revolutionary book Joan Breton Connelly challenges our most basic assumptions about the Parthenon and the ancient Athenians Beginning with the natural environment and its rich mythic associations she re creates the development of the Acropolis the Sacred Rock at the heart of the city state from its prehistoric origins to its Periklean glory days as a constellation of temples among which the Parthenon stood supreme In particular she probes the Parthenon s legendary frieze the 525 foot long relief sculpture that originally encircled the upper reaches before it was partially destroyed by Venetian cannon fire in the seventeenth century and most of what remained was shipped off to Britain in the nineteenth century among the Elgin marbles The frieze s vast enigmatic procession a dazzling pageant of cavalymen and elders musicians and maidens has for more than two hundred years been thought to represent a scene of annual civic celebration in the birthplace of democracy But thanks to a once lost play by Euripides the discovery of which in the wrappings of a Hellenistic Egyptian mummy is only one of this book s intriguing adventures Connelly has uncovered a long buried meaning a story of human sacrifice set during the city s mythic founding In a society startlingly preoccupied with cult ritual this story was at the core of what it meant to be Athenian Connelly reveals a world that beggars our popular notions of Athens as a city of staid philosophers rationalists and rhetoricians a world in which

our modern secular conception of democracy would have been simply incomprehensible The Parthenon's full significance has been obscured until now owing in no small part Connelly argues to the frieze's dismemberment And so her investigation concludes with a call to reunite the pieces in order that what is perhaps the greatest single work of art surviving from antiquity may be viewed more nearly as its makers intended Marshalling a breathtaking range of textual and visual evidence full of fresh insights woven into a thrilling narrative that brings the distant past to life The Parthenon Enigma is sure to become a landmark in our understanding of the civilization from which we claim cultural descent **Time and the Psyche** Angeliki Yiassemides, 2017-04-21 In *Time and the Psyche* a diverse selection of contributors explores the multi-layered aspects of time through the lens of analytical psychology The book aims to bridge the gap between theory and practice emphasising time's fundamental role in the workings and expressions of the psyche and additionally exploring cultural and clinical dimensions The contributors deal with temporality in our inner world and its manifestations as expressed by products of our psyche covering topics including disturbances of temporality within the psychoanalytic session the acausal connecting principle of synchronicity time as expressed in film objects literature and culture and temporality as understood in various types of dreams and imaginary practices The book also explores the time-bound world time versus timelessness the realm of the eternal human versus cosmic time Chronos versus Kairos and other temporality-related dimensions and their relationship to our psyche and our experience in the world With contributors from backgrounds in clinical work the arts literature and philosophy this collection is unique in its scope *Time and the Psyche* is a thought-provoking reading for academics and students of Jungian and post-Jungian studies analytical psychologists and Jungian analysts in practice and in training **The Evolution of Human Co-operation** Charles Stanish, 2017-08-03 This book explains the evolution of human cooperation in tribal societies using insights from game theory ethnography and archaeology *Heiau, 'Āina, Lani* Patrick Vinton Kirch, Clive Ruggles, 2019-05-31 *Heiau in Lani* is a collaborative study of 78 temple sites in the ancient moku of Kahikinui and Kaup in southeastern Maui undertaken using a novel approach that combines archaeology and archaeoastronomy Although temple sites heiau were the primary focus of Hawaiian archaeologists in the earlier part of the twentieth century they were later neglected as attention turned to the excavation of artifact-rich habitation sites and theoretical and methodological approaches focused more upon entire cultural landscapes This book restores heiau to center stage Its title meaning Temples Land and Sky reflects the integrated approach taken by Patrick Vinton Kirch and Clive Ruggles based upon detailed mapping of the structures precise determination of their orientations and accurate dating *Heiau in Lani* is the outcome of a joint fieldwork project by the two authors spanning more than fifteen years in a remarkably well-preserved archaeological landscape containing precontact house sites walls and terraces for dryland cultivation and including scores of heiau ranging from simple upright stones dedicated to Kū to massive platforms where the priests performed rites of human sacrifice to the war god Kū Many of these heiau are newly discovered and reported for the first time in the book The authors

offer a fresh narrative based upon some provocative interpretations of the complex relationships between the Hawaiian temple system the landscape and the heavens the skyscape They demonstrate that renewed attention to heiau in the context of contemporary methodological and theoretical perspectives offers important new insights into ancient Hawaiian cosmology ritual practices ethnogeography political organization and the habitus of everyday life Clearly Heiau ina Lani repositions the study of heiau at the forefront of Hawaiian archaeology

A Short History of the Phoenicians Mark Woolmer, 2021-09-09
Offering new insights based on recent archaeological discoveries in their heartland of modern day Lebanon Mark Woolmer presents a fresh appraisal of this fascinating yet elusive Semitic people Discussing material culture language and alphabet religion including sacred prostitution of women and boys to the goddess Astarte funerary custom and trade and expansion into the Punic west he explores Phoenicia in all its paradoxical complexity Viewed in antiquity as sage scribes and intrepid mariners who pushed back the boundaries of the known world and as skilled engineers who built monumental harbour cities like Tyre and Sidon the Phoenicians were also considered especially by their rivals the Romans to be profiteers cruelly trading in human lives The author shows them above all to have been masters of the sea this was a civilization that circumnavigated Africa two thousand years before Vasco da Gama did it in 1498 The Phoenicians present a tantalizing face to the ancient historian Latin sources suggest they once had an extensive literature of history law philosophy and religion but all now is lost In this revised and updated edition Woolmer takes stock of recent historiographical developments in the field bringing the present edition up to speed with contemporary understanding

The Golden Age of Data Visualization Kim Marriott, 2024-09-04
We are living in the Golden Age of Data Visualization The COVID 19 pandemic has demonstrated how we increasingly use data visualizations to make sense of the world Business analysts fill their presentations with charts journalists use infographics to engage their readers we rely on the dials and gauges on our household appliances and we use mapping apps on our smartphones to find our way This book explains how and why this has happened It details the evolution of information graphics the kinds of graphics at the core of data visualization maps diagrams charts scientific and medical images from prehistory to the present day It explains how the cultural context production and presentation technologies and data availability have shaped the history of data visualization It considers the perceptual and cognitive reasons why data visualization is so effective and explores the little known world of tactile graphics raised line drawings used by people who are blind The book also investigates the way visualization has shaped our modern world The European Renaissance and the Scientific Revolution relied on maps and technical and scientific drawings and graphics influence how we think about abstract concepts like time and social connection This book is written for data visualization researchers and professionals and anyone interested in data visualization and the way we use graphics to understand and think about the world

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