

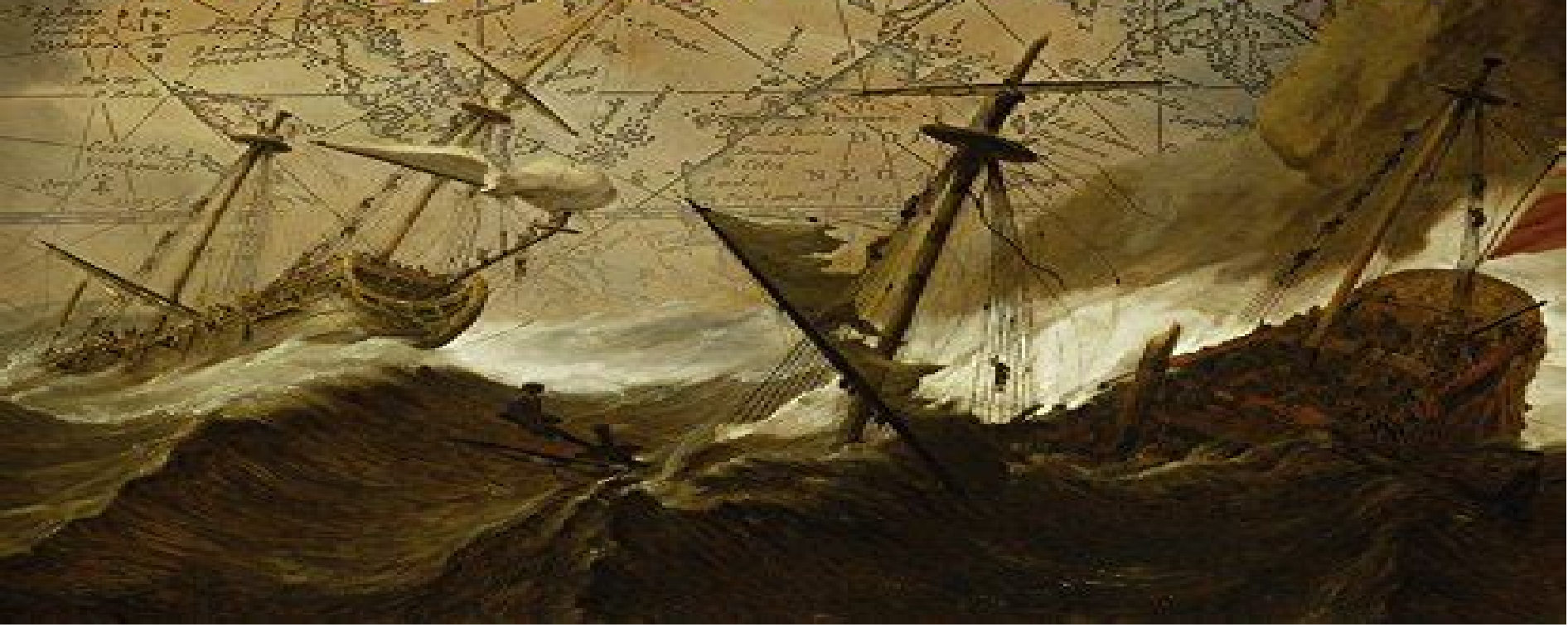
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Ships, Clocks & Stars

THE QUEST *for* LONGITUDE



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Jim Bennett



Ships Clocks And Stars The Quest For Longitude:

Ships, Clocks, and Stars Richard Dunn, Rebekah Higgitt, 2014-11-04 An illustrated history of an eighteenth century British act of parliament and the heated race to find a ship's precise longitude at sea. A tale of eighteenth century invention and competition, commerce and conflict, this is a lively illustrated and accurate chronicle of the search to solve the longitude problem, the question of how to determine a ship's position at sea, and one that changed the history of mankind. **Ships Clocks and Stars** brings into focus one of our greatest scientific stories, the search to accurately measure a ship's position at sea. The incredible illustrated volume reveals why longitude mattered to seafaring nations, illuminates the various solutions that were proposed and tested, and explores the invention that revolutionized human history and the man behind it, John Harrison. Here too are the voyages of Captain Cook that put these revolutionary navigational methods to the test. Filled with astronomers, inventors, politicians, seamen, and satirists, **Ships Clocks and Stars** explores the scientific, political, and commercial battles of the age, as well as the sailors, ships, and voyages that made it legend, from Matthew Flinders and George Vancouver to the voyages of the *Bounty* and the *Beagle*. Featuring more than 150 photographs specially commissioned from Britain's National Maritime Museum, this evocative, detailed, and thoroughly fascinating history brings this age of exploration and enlightenment vividly to life.

Ships, Clocks, and Stars Richard Dunn, Rebekah Higgitt, National maritime museum (Londres)., **Finding Longitude: How ships, clocks and stars helped solve the longitude problem** National Maritime Museum, Dunn, Rebekah Higgitt, 2014-07-10 Recommended for viewing on colour device. Official publication of the National Maritime Museum's **Ships Clocks and Stars** exhibition. [A World at Sea](#) Lauren Benton, Nathan Perl-Rosenthal, 2020-10-09 The past twenty-five years have brought a dramatic expansion of scholarship in maritime history, including new research on piracy, long distance trade, and seafaring cultures. Yet maritime history still inhabits an isolated corner of world history, according to editors Lauren Benton and Nathan Perl Rosenthal. Benton and Perl Rosenthal urge historians to place the relationship between maritime and terrestrial processes at the center of the field and to analyze the links between global maritime practices and major transformations in world history. **A World at Sea** consists of nine original essays that sharpen and expand our understanding of practices and processes across the land-sea divide and the way they influenced global change. The first section highlights the regulatory order of the seas as shaped by strategies of land-based politics and their agents, and by conflicts at sea. The second section studies documentary practices that aggregated and conveyed information about sea voyages and encounters, and it traces the wide-ranging impact of the explosion of new information about the maritime world. Probing the political symbolism of the land-sea divide as a threshold of power, the last section features essays that examine the relationship between littoral geographies and sociolegal practices spanning land and sea. Maritime history, the contributors show, matters because the oceans were key sites of experimentation, innovation, and disruption that reflected and sparked wide-ranging global change. Contributors: Lauren Benton, Adam Clulow, Xing Hang, David Igler, Jeppe Mulich, Lisa

Norling Nathan Perl Rosenthal Carla Rahn Phillips Catherine Phipps Matthew Raffety Margaret Schotte **Navigating by the Southern Cross** Kenneth Morgan, 2021-01-28 In this comprehensive study Kenneth Morgan provides an authoritative account of European exploration and discovery in Australia The book presents a detailed chronological overview of European interests in the Australian continent from initial speculations about the Great Southern Land to the major hydrographic expeditions of the 19th century In particular he analyses the early crossings of the Dutch in the 17th century the exploits of English buccaneer adventurer William Dampier the famous voyages of James Cook and Matthew Flinders and the little known French annexation of Australia in 1772 Introducing new findings and drawing on the latest in historiographical research this book situates developments in navigation nautical astronomy and cartography within the broader contexts of imperial colonial and maritime history *Navigational Enterprises in Europe and its Empires, 1730-1850* Rebekah Higgitt, Richard Dunn, 2016-02-19 This book explores the development of navigation in the eighteenth and nineteenth centuries It examines the role of men of science seamen and practitioners across Europe and the realities of navigational practice showing that old and new methods were complementary not exclusive their use dependent on many competing factors **Marine Chronometers at Greenwich** Jonathan Betts, 2018-01-03 The Marine Chronometers at Greenwich is the fifth and largest of the distinguished series of catalogues of instruments in the collections of the National Maritime Museum Housed at the Royal Observatory Greenwich the home of time and the Prime Meridian of the world this extraordinary collection which includes the celebrated marine timekeepers by John Harrison 1693 1776 is generally considered to be the finest of its kind in existence The book is however much more than just a catalogue and includes an accessible and engaging history of the chronometer revealing why these instruments were important in our scientific and cultural history and explaining in simple terms how they worked and were used A comprehensive Glossary and Bibliography are included to ensure any technicalities are explained and that the reader has suggestions for useful further reading Over 480 photographs and illustrations including many fine macro photographs and line drawings illustrate the jewel like beauty of the chronometer s construction and explain the function and subtleties of its mechanism A chapter on How the Chronometer was Made describes the fine sub division of labour used to create these special machines from bare metal right up to delivery on board ship and brief biographies of the makers tell the human story behind this important nineteenth century industry Another chapter The Evolution of the Chronometer aimed at collectors historians and curators provides clearly structured information on assessing and dating the chronometer something many find difficult And for the dedicated specialist there is extensive tabulated data on the technical structure of this important collection a unique resource for future research The Routledge Companion to Marine and Maritime Worlds 1400-1800 Claire Jowitt, Craig Lambert, Steve Mentz, 2020-05-21 This book has been nominated for The Mountbatten Award for Best Book in the Maritime Media Awards 2021 The Routledge Companion to Marine and Maritime Worlds 1400 1800 explores early modern maritime history culture and the current state

of the research and approaches taken by experts in the field Ranging from cartography to poetry and decorative design to naval warfare the book shows how once traditional and often Euro chauvinistic depictions of oceanic mastery during the early modern period have been replaced by newer global ideas This comprehensive volume challenges underlying assumptions by balancing its assessment of the consequences and accomplishments of European navigators in the era of Columbus da Gama and Magellan with an awareness of the sophistication and maritime expertise in Asia the Arab world and the Americas By imparting riveting new stories and global perceptions of maritime history and culture the contributors provide readers with fresh insights concerning early modern entanglements between humans and the vast unpredictable ocean With maritime studies growing and the ocean s health in decline this volume is essential reading for academics and students interested in the historicization of the ocean and the ways early modern cultures both conceptualized and utilized seas

Athanasius Kircher, the Mysteries of the Geocosmos, Magnetism, and the Universe Agustín

Udías, 2024-03-20 Athanasius Kircher the eminent 17th century German Jesuit professor of mathematics at the Roman College emerges as a captivating figure within the pages of this monograph by Agustín Udías Aptly deemed the man who knew everything Kircher s thirty two comprehensive works spanning an array of subjects provide a unique lens into his visionary perspectives This book delves into three selected works where Kircher unveils his conceptualization of the Earth termed the Geocosmos treated magnetism as a cosmic and spiritual force and embarks on a cosmic exploration from Earth to the stars From his groundbreaking speculations on the Earth s interior attributing earthquakes and volcanoes to intricate channels of air water and fire to his cosmic journey accompanied by the ethereal spirit Cosmiel Kircher s enduring allure persists Despite variance from contemporary knowledge situated at the beginning of modern science Kircher s proposals of the structure of the Earth s interior cosmic magnetic theories and space journey to the stars offer a compelling glimpse into the intellectual landscape of a bygone era making this book an essential exploration for scholars seeking a nuanced understanding of Kircher s profound influence

The Changing Face of Early Modern Time, 1550-1770 Jane

Desborough, 2019-03-27 This book provides a reinterpretation of early modern clock and watch dials on the basis of use Between 1550 and the emergence of a standard format in 1770 dials represented combinations of calendrical lunar and astronomical information using multiple concentric rings subsidiary dials and apertures Change was gradual but significant Over the course of eight chapters and with reference to thirty five exceptional images this book unlocks the meaning embedded within these early combinations The true significance of dial change can only be fully understood by comparing dials with printed paper sources such as almanacs diagrams and craft pamphlets Clock and watch makers drew on traditional communication methods utilised different formats to generate trust in their work and tried to help users in different contexts The calendar lunar and astronomical functions were useful as a memory prompt for astrology up until the mid late seventeenth century After the decline of this practice the three functions continued to be useful for other purposes but

eventually declined Granville Sharp's Cases on Slavery Andrew Lyall,2017-03-23 The purpose of Granville Sharpe s Cases on Slavery is twofold first to publish previously unpublished legal materials principally in three important cases in the 18th century on the issue of slavery in England and specifically the status of black people who were slaves in the American colonies or the West Indies and who were taken to England by their masters The unpublished materials are mostly verbatim transcripts made by shorthand writers commissioned by Granville Sharp one of the first Englishmen to take up the cause of the abolition of the slave trade and slavery itself Other related unpublished material is also made available for the first time including an opinion of an attorney general and some minor cases from the library of York Minster On the slave ship Zong there are transcripts of the original declaration the deposition by the chief mate James Kelsall and an extract from a manuscript that Professor Martin Dockray was working on before his untimely death The second purpose outlined in the Introduction is to give a social and legal background to the cases and an analysis of the position in England of black servants slaves brought to England and the legal effects of the cases taking into account the new information provided by the transcripts There was a conflict in legal authorities as to whether black servants remained slaves or became free on arrival in England Lord Mansfield the chief justice of the court of King s Bench was a central figure in all the cases and clearly struggled to come to terms with slavery The material provides a basis for tracing the evolution of his thought on the subject On the one hand the huge profits from slave production in the West Indies flooded into England slave owners had penetrated the leading institutions in England and the pro slavery lobby was influential On the other hand English law had over time established rights and liberties which in the 18th century were seen by many as national characteristics That tradition was bolstered by the ideas of the Enlightenment By about the 1760s it had become clear that there was no property in the person and by the 1770s that such servants could not be sent abroad without their consent but whether they owed an obligation of perpetual service remained unresolved *Selene's Two Faces* ,2018-08-13 If any scientific object has over the course of human history aroused the fascination of both scientists and artists worldwide it is beyond doubt the moon The moon is also by far the most interesting celestial body when it comes to reflecting on the dualistic nature of photography as applied to the study of the universe Against this background Selene s Two Faces sets out to look at the scientific purpose aesthetic expression and influence of early lunar drawings maps and photographs including spacecraft imaging In its approach Selene s Two Faces is intermedial intercultural and interdisciplinary It brings together not only various media photography maps engravings lithographs globes texts and cultures from Europe America and Asia but also theoretical perspectives See inside the book Encyclopedia of Heroism Studies ,2024-10-01 This reference work is an important resource in the growing field of heroism studies It presents concepts research and events key to understanding heroism heroic leadership heroism development heroism science and their relevant applications to businesses organizations clinical psychology human wellness human growth potential public health social justice social activism and the humanities The encyclopedia emphasizes five key

realms of theory and application Business and organization focusing on management effectiveness emotional intelligence empowerment ethics transformational leadership product branding motivation employee wellness entrepreneurship and whistleblowers clinical health psychology and public health focusing on stress and trauma maltreatment emotional distress bullying psychopathy depression anxiety family disfunction chronic illness and healthcare workers wellbeing human growth and positive psychology discussing altruism authenticity character strengths compassion elevation emotional agility eudaimonia morality empathy flourishing flow self efficacy joy kindness prospection moral development courage and resilience social justice and activism highlighting anti racism anti bullying civil disobedience civil rights heroes climate change environmental heroes enslavement heroes human rights heroism humanitarian heroes inclusivity LGBTQ heroism metoo movement heroism racism sustainability and women s suffrage heroes and humanities relating to the mythic hero s journey bliss boon crossing the threshold epic heroes fairy tales fiction language and rhetoric narratives mythology hero monomyth humanities and heroism religious heroes and tragic heroes *A Brief History of Timekeeping* Chad

Orzel,2022-01-25 2022 NATIONAL INDIE EXCELLENCE AWARDS WINNER HISTORY GENERAL inherently interesting unique and highly recommended addition to personal professional community college and academic library Physics of Time mechanical clocks owe their development to Newtonian physics and the ultra precise atomic timekeeping that enables GPS hinges on the predictable oddities of quantum mechanics Along the way Orzel visits the delicate negotiations involved in Gregorian calendar reform the intricate and entirely unique system employed by the Maya and how the problem of synchronizing clocks at different locations ultimately required us to abandon the idea of time as an absolute and universal quantity Sharp and engaging *A Brief History of Timekeeping* is a story not just about the science of sundials sandglasses and mechanical clocks but also the politics of calendars and time zones the philosophy of measurement and the nature of space and time itself For those interested in science technology or history or anyone who s ever wondered about the instruments that divide our days into moments the time you spend reading this book may fly and it is certain to be well spent

Mathematics at the Meridian Raymond Flood,Tony Mann,Mary Croarken,2019-11-11 Greenwich has been a centre for scientific computing since the foundation of the Royal Observatory in 1675 Early Astronomers Royal gathered astronomical data with the purpose of enabling navigators to compute their longitude at sea Nevil Maskelyne in the 18th century organised the work of computing tables for the Nautical Almanac anticipating later methods used in safety critical computing systems The 19th century saw influential critiques of Charles Babbage s mechanical calculating engines and in the 20th century Leslie Comrie and others pioneered the automation of computation The arrival of the Royal Naval College in 1873 and the University of Greenwich in 1999 has brought more mathematicians and different kinds of mathematics to Greenwich In the 21st century computational mathematics has found many new applications This book presents an account of the mathematicians who worked at Greenwich and their achievements Features A scholarly but accessible history of

mathematics at Greenwich from the seventeenth century to the present day with each chapter written by an expert in the field The book will appeal to astronomical and naval historians as well as historians of mathematics and scientific computing

Captain Cook and the Pacific John McAleer, Nigel Rigby, 2017-01-01 British Royal Navy Captain James Cook's voyages of exploration across and around the Pacific Ocean were a marvel of maritime achievement and provided the first accurate map of the Pacific The expeditions answered key scientific economic and geographic questions and inspired some of the most influential images of the Pacific made by Europeans Now readers can immerse themselves in the adventure through the collections of London's National Maritime Museum which illuminate every aspect of the voyages oil paintings of lush landscapes scientific and navigational instruments ship plans globes charts and maps rare books and manuscripts coins and medals ethnographic material and personal effects Each artifact holds a story that sheds light on Captain Cook the crews he commanded and the effort's impact on world history Showcasing one of the richest resources of Cook related material in the world this publication invites readers to engage with the extraordinary voyages manifested in material culture and their continuing significance today

The Dark Side of Knowledge Cornel Zwierlein, 2016-06-10 How can one study the absence of knowledge the voids the conscious and unconscious unknowns through history Investigations into late medieval and early modern practices of measuring of risk calculation of ignorance within financial administrations of conceiving the docta ignorantia as well as the silence of the illiterate are combined with contributions regarding knowledge gaps within identification procedures and political decision making with the emergence of consciously delimited blanks on geographical maps with ignorance as a factor embedded in iconographic programs in translation processes and the semantic potentials of reading Based on thorough archival analysis these selected contributions from conferences at Harvard and Paris are tightly framed by new theoretical elaborations that have implications beyond these cases and epochal focus Contributors Giovanni Ceccarelli Taylor Cowdery Lucile Haguet John T Hamilton Lucian H Ischer Moritz Isenmann Adam J Kosto Marie Laure Legay Andrew McKenzie McHarg Fabrice Micallef William T O Reilly Eleonora Rohland Mathias Schmoeckel Daniel L Smail Govind P Sreenivasan and Cornel Zwierlein

Navigation: A Very Short Introduction Jim Bennett, 2017-02-10 From the Bronze Age mariners of the Mediterranean to contemporary sailors using satellite based technologies the history of navigation at sea the art of finding a position and setting a course is fascinating The scientific and technological developments that have enabled accurate measurements of position were central to exploration trade and the opening up of new continents and the resulting journeys taken under their influence have had a profound influence on world history In this Very Short Introduction Jim Bennett looks at the history of navigation starting with the distinctive cultures of navigation that are defined geographically the Mediterranean Sea and the Pacific Indian and Atlantic Oceans He shows how the adoption of mathematical methods the use of instruments the writing of textbooks and the publication of charts all combined to create a more standardised practice Methods such as longitude finding by chronometer and lunar distance were complemented by the routine business of

recording courses and reckoning position by account Bennett also introduces the incredible array of instruments relied on by sailors from astrolabes sextants and chronometers to our more modern radio receivers electronic equipment and charts and highlights the crucial role played by the individual qualities of endeavour and resourcefulness from mathematicians scientists and seamen in finding their way at sea The story of navigation combines the societal the technical and the human and it was vital for shaping the modern world ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

The History of Cartography, Volume 4 Matthew H. Edney, Mary Sponberg Pedley, 2020-05-15 Since its launch in 1987 the History of Cartography series has garnered critical acclaim and sparked a new generation of interdisciplinary scholarship Cartography in the European Enlightenment the highly anticipated fourth volume offers a comprehensive overview of the cartographic practices of Europeans Russians and the Ottomans both at home and in overseas territories from 1650 to 1800 The social and intellectual changes that swept Enlightenment Europe also transformed many of its mapmaking practices A new emphasis on geometric principles gave rise to improved tools for measuring and mapping the world even as large scale cartographic projects became possible under the aegis of powerful states Yet older mapping practices persisted Enlightenment cartography encompassed a wide variety of processes for making circulating and using maps of different types The volume s more than four hundred encyclopedic articles explore the era s mapping covering topics both detailed such as geodetic surveying thematic mapping and map collecting and broad such as women and cartography cartography and the economy and the art and design of maps Copious bibliographical references and nearly one thousand full color illustrations complement the detailed entries

Journal of the Barbados Museum and Historical Society Barbados Museum and Historical Society, 2014

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