

The Origins of Agriculture in the Lowland Neotropics



Dolores R. Piperno
Deborah M. Pearsall

Origins Of Agriculture In The Lowland Neotropics

Melinda A. Zeder



Origins Of Agriculture In The Lowland Neotropics:

The Origins of Agriculture in the Lowland Neotropics Dolores R. Piperno, Deborah M. Pearsall, 1998-03-30 This first modern full bodied study of early horticulture and agriculture in the Neotropics unites new methods of recovering identifying and dating plant remains with a strong case for Optimal Foraging Strategy in this historical context Drawing upon new approaches to tropical archaeology Dolores Piperno and Deborah Pearsall argue that the tropical forest habitat is neither as hostile nor as benevolent for human occupation and plant experimentation as researchers have suggested Among other conclusions they demonstrate that tropical forest food production emerged concurrent with that in the Near East that many tropical lowland societies practiced food production for at least 5 000 years before the emergence of village life and that by 7000 B P cultivated plots had been extended into the forest with the concomitant felling and killing of trees to admit sunlight to seed and tuber beds Piperno and Pearsall have written a polished study of the low lying regions between southwestern Mexico and the southern rim of the Amazon Basin With modern techniques for recording and dating botanical remains from archaeological sites and genetic studies to determine the relationships between wild and domesticated plants their research pulls together a huge mass of information produced by scholars in various disciplines and provides a strong theoretical framework in which to interpret it Key features include arguments that tropical forest food production emerged at approximately the same time as that in the Near East and is earlier than currently demonstrated in highland Mexico and Peru and contends that the lowland tropics witnessed climatic and vegetational changes between 11 000 BP and 10 000 BP no less profound than those experienced at higher latitudes It appeals to anyone concerned with Latin American prehistory It offers coverage of the development of slash and burn or swidden cultivation and focuses on low and lower mid elevations *After the Ice* Steven J. Mithen, 2006 Drawing on the latest research in archaeology human genetics and environmental science After The Life takes the reader on a sweeping tour of 15 000 years of human history Cover **Tracing Early Agriculture in the Highlands of New Guinea** Tim Denham, 2018-06-28 In this book historical narratives chart how people created forms of agriculture in the highlands of New Guinea and how these practices were transformed through time The intention is twofold to clearly establish New Guinea as a region of early agricultural development and plant domestication and to develop a contingent practice based interpretation of early agriculture that has broader application to other regions of the world The multi disciplinary record from the highlands has the potential to challenge and change long held assumptions regarding early agriculture globally which are usually based on domestication Early agriculture in the highlands is charted by an exposition of the practices of plant exploitation and cultivation Practices are ontologically prior because they ultimately produce the phenotypic and genotypic changes in plant species characterised as domestication as well as the social and environmental transformations associated with agriculture They are also methodologically prior because they emplace plants in specific historico geographic contexts **The History of Agriculture** Britannica Educational Publishing, 2012-12-01 Agriculture

that is using and managing natural resources has a long and complex history For thousands of years societies have relied on plants and animals for food and other items making agriculture as vital to their survival as it is to ours The cultivation of various crops and livestock over time and throughout the world are examined revealing the history behind and importance of much of the food we eat today Also covered are the techniques and equipment that have been developed over time to facilitate agricultural production

Biodiversity in Agriculture Jack Rodney Harlan, Paul Gepts, 2012-02-23 Brings together research from a range of fields to address key questions relating to agriculture its origins and long term sustainability

The Oxford Handbook of the Archaeology and Anthropology of Hunter-Gatherers Vicki Cummings, Peter Jordan, Marek Zvelebil, 2014-04-24 For more than a century the study of hunting and gathering societies has been central to the development of both archaeology and anthropology as academic disciplines and has also generated widespread public interest and debate The Oxford Handbook of the Archaeology and Anthropology of Hunter Gatherers provides a comprehensive review of hunter gatherer studies to date including critical engagements with older debates new theoretical perspectives and renewed obligations for greater engagement between researchers and indigenous communities Chapters provide in depth archaeological historical and anthropological case studies and examine far reaching questions about human social relations attitudes to technology ecology and management of resources and the environment as well as issues of diet health and gender relations all central topics in hunter gatherer research but also themes that have great relevance for modern global society and its future challenges The Handbook also provides a strategic vision for how the integration of new methods approaches and study regions can ensure that future research into the archaeology and anthropology of hunter gatherers will continue to deliver penetrating insights into the factors that underlie all human diversity

Ethnobotany of Mexico Rafael Lira, Alejandro Casas, José Blancas, 2016-04-23 This book reviews the history current state of knowledge and different research approaches and techniques of studies on interactions between humans and plants in an important area of agriculture and ongoing plant domestication Mesoamerica Leading scholars and key research groups in Mexico discuss essential topics as well as contributions from international research groups that have conducted studies on ethnobotany and domestication of plants in the region Such a convocation will produce an interesting discussion about future investigation and conservation of regional human cultures genetic resources and cultural and ecological processes that are critical for global sustainability

First Farmers Peter Bellwood, 2004-11-30 First Farmers the Origins of Agricultural Societies offers readers an understanding of the origins and histories of early agricultural populations in all parts of the world Uses data from archaeology comparative linguistics and biological anthropology to cover developments over the past 12 000 years Examines the reasons for the multiple primary origins of agriculture Focuses on agricultural origins in and dispersals out of the Middle East central Africa China New Guinea Mesoamerica and the northern Andes Covers the origins and dispersals of major language families such as Indo European Austronesian Sino Tibetan Niger Congo and Uto Aztecan

Histories of Maize

John Staller, Robert Tykot, Bruce Benz, 2016-12-05 Maize has been described as a primary catalyst to complex sociocultural development in the Americas. State of the art research on maize chronology, molecular biology and stable carbon isotope research on ancient human diets have provided additional lines of evidence on the changing role of maize through time and space and its spread throughout the Americas. The multidisciplinary evidence from the social and biological sciences presented in this volume have generated a much more complex picture of the economic, political and religious significance of maize. The volume also includes ethnographic research on the uses and roles of maize in indigenous cultures and a linguistic section that includes chapters on indigenous folk taxonomies and the role and meaning of maize to the development of civilization. *Histories of Maize* is the most comprehensive reference source on the botanical, genetic, archaeological and anthropological aspects of ancient maize published to date. This book will appeal to a varied audience and have no titles competing with it because of its breadth and scope. The volume offers a single source of high quality summary information unavailable elsewhere.

The Archaeology of Caribbean and Circum-Caribbean Farmers (6000 BC - AD 1500) Basil Reid, 2018-05-16. Comprising 17 chapters and with a wide geographic reach stretching from the Florida Keys in the north to the Guianas in the south, this volume places a well needed academic spotlight on what is generally considered an integral topic in Caribbean and circum Caribbean archaeology. The book explores a variety of issues including the introduction and dispersal of early cultivars, plant manipulation, animal domestication, dietary profiles and landscape modifications. Tried and true and novel analytical techniques are used to tease out aspects of the Caribbean and circum Caribbean database that inform the complex and often subtle processes of domestication under varying socio environmental conditions. Contributors discuss their findings within multiple constructs such as neolithisation, social interaction, trade, mobility, social complexity, migration, colonisation and historical ecology. Multiple data sources are used which include but are not restricted to rock art, cooking pits and pots, stable isotopes, dental calculus and pathologies, starch grains and proxies for past environmental conditions. Given its multi disciplinary approaches, this volume should be of immense value to both researchers and students of Caribbean archaeology, biogeography, ethnobotany, zooarchaeology, historical ecology, agriculture, environmental studies, history and other related fields.

The Oxford Handbook of Wetland Archaeology Francesco Menotti, Aidan O'Sullivan, 2013. This Handbook sets out the key issues and debates in the theory and practice of wetland archaeology which has played a crucial role in studies of our past. Due to the high quantity of preserved organic materials found in humid environments, the study of wetlands has allowed archaeologists to reconstruct people's everyday lives in great detail.

The Tutu Archaeological Village Site Elizabeth Righter, 2003-09-02. Excavations at the Tutu site represent a dramatic chapter in the annals of Caribbean archaeological excavation. The site was discovered in 1990 during the initial site clearing for a shopping mall in St Thomas, U.S. Virgin Islands. The site was excavated with the assistance of a team of professional archaeologists and volunteers. Utilizing resources and funds donated by the local scientific communities, the project employed a multidisciplinary

sampling strategy designed to recover material for analysis by experts in fields such as anthropology archaeology palaeobotany zooarchaeology bioarchaeology palaeopathology and photo imaging This volume reports the results of these various applied analytical techniques laying a solid foundation for future comparative studies of prehistoric Caribbean human populations and cultures

The Emergence of Agriculture Peter White, Timothy Denham, 2020-10-25 This volume the first in the One World Archaeology series is a compendium of key papers by leaders in the field of the emergence of agriculture in different parts of the world Each is supplemented by a review of developments in the field since its publication Contributions cover the better known regions of early and independent agricultural development such as Southwest Asia and the Americas as well as lesser known locales such as Africa and New Guinea Other contributions examine the dispersal of agricultural practices into a region such as India and Japan and how introduced crops became incorporated into pre existing forms of food production This reader is intended for students of the archaeology of agriculture and will also prove a valuable and handy resource for scholars and researchers in the area

Histories of Maize in Mesoamerica John Staller, Robert Tykot, Bruce Benz, 2016-06-16 Abridged and updated version of the basic work on the development of maize including 20 chapters of interest to Mesoamerican specialists updated with recent findings and interpretations

Big History and the Future of Humanity Fred Spier, 2015-03-04 big history and the future of humanity This remains the best single attempt to theorize big history as a discipline that can link core concepts and paradigms across all historical disciplines from cosmology to geology from biology to human history With additional and updated material the Second Edition also offers a fine introduction to the history of big history and a superb introductory survey to the big history story Essential reading for anyone interested in a rapidly evolving new field of scholarship that links the sciences and the humanities into a modern science based origin story David Christian Macquarie University Notable for its theoretic approach this new Second Edition is both an indispensable contribution to the emerging big history narrative and a powerful university textbook Spier defines words carefully and recognizes the limits of current knowledge aspects of his own clear thinking Cynthia Brown Emerita Dominican University of California Reflecting the latest theories in the sciences and humanities this new edition of Big History and the Future of Humanity presents an accessible and original overview of the entire sweep of history from the origins of the universe and life on Earth up to the present day Placing the relatively brief period of human history within a much broader framework one that considers everything from vast galaxy clusters to the tiniest sub atomic particles big history is an innovative theoretical approach that opens up entirely new multidisciplinary research agendas Noted historian Fred Spier reveals how a thorough examination of patterns of complexity can offer richer insights into what the future may have in store for humanity The second edition includes new learning features such as highlighted scientific concepts an illustrative timeline and comprehensive glossary By exploring the cumulative history from the Big Bang to the modern day Big History and the Future of Humanity Second Edition sheds important historical light on where we have been and offers a

tantalizing glimpse of what lies ahead *New Lives for Ancient and Extinct Crops* Paul E. Minnis, 2016-09 *New Lives for Ancient and Extinct Crops* profiles nine plant species that were important contributors to human diets and medicinal uses in antiquity maygrass chenopod marsh elder agave little barley chia arrowroot little millet and bitter vetch Each chapter is written by a well known scholar who illustrates the value of the ancient crop record to inform the present *Island Historical Ecology* Peter E. Siegel, 2018-01-29 In the first book length treatise on historical ecology of the West Indies *Island Historical Ecology* addresses Caribbean island ecologies from the perspective of social and cultural interventions over approximately eight millennia of human occupations Environmental coring carried out in carefully selected wetlands allowed for the reconstruction of pre colonial and colonial landscapes on islands between Venezuela and Puerto Rico Comparisons with well documented patterns in the Mediterranean and Pacific islands place this case study into a larger context of island historical ecology Documenting Domestication Melinda A. Zeder, 2006-06-20 A genetic revolution has transformed the study of the domestication of plants and animals *Documenting Domestication* presents the best research and resolves issues that had been intractable in the past Richard I Ford University of Michigan **The Forest Farms of Kandy** D.J. McConnell, K.A.E. Dharmapala, S.R. Attanayake, 2017-03-02 Throughout the tropical world especially in South and Southeast Asia tropical America Africa and Oceania there exists a range of forest garden farming systems These are small low input but productive and sustainable family units of highly diversified trees palms bushes and vines with few conventional field crops or livestock Providing a survey of these systems around the world and an in depth analysis of the farms around Kandy Sri Lanka this book offers an economic and ecological description and evaluation of this ancient agroforestry system and its relationship to a wide range of global agro development and environmental problems Guided by a table that lists some 30 socio economic and social criteria by which all farming systems can and should be evaluated the book presents persuasive evidence supported by comprehensive references It also examines historical and archaeological findings in order to assess the role these tropical forests played in the general adoption of agricultural farming *Paleoethnobotany* Deborah M Pearsall, 2016-06-16 This new edition of the definitive work on doing paleoethnobotany brings the book up to date by incorporating new methods and examples of research while preserving the overall organization and approach of the book to facilitate its use as a textbook In addition to updates on the comprehensive discussions of macroremains pollen and phytoliths this edition includes a chapter on starch analysis the newest tool in the paleoethnobotanist s research kit Other highlights include updated case studies expanded discussions of deposition and preservation of archaeobotanical remains updated historical overviews new and updated techniques and approaches including insights from experimental and ethnoarchaeological studies and a current listing of electronic resources Extensively illustrated this will be the standard work on paleoethnobotany for a generation

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