Bulliet Johnson Hirsch Crossley Headrick Northrup

# The ECOPTO Peoples

# A Global History

Seventh Edition

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# The Earth and Its Peoples A Global History Seventh Edition

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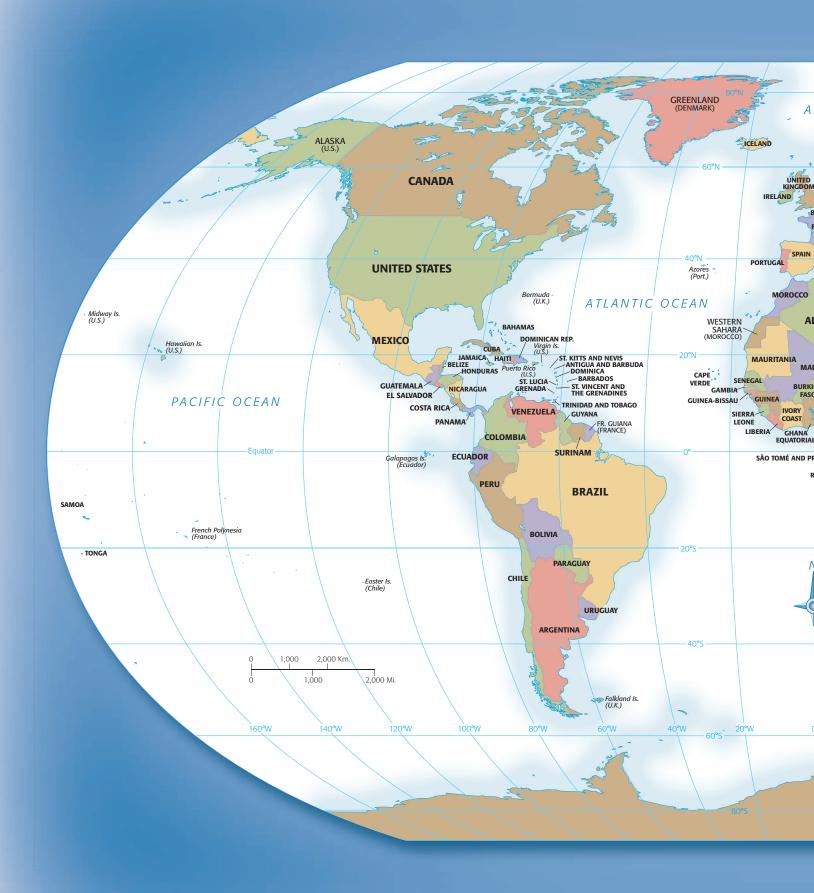


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# Issues in World History

Animal Domestication Oral Societies and the Consequences of Literacy Religious Conversion Climate and Population to 1500 The Little Ice Age State Power, the Census, and the Question of Identity Famines and Politics Popular Culture—Words of Warning

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# Preface

The overall goal of *The Earth and Its Peoples* remains as it has been since its first edition: to be a textbook that speaks not only for the past but also to today's student and teacher. Students and instructors alike should take away from this text a broad and flowing impression of human societies beginning as sparse and disconnected communities reacting creatively to local circumstances; experiencing ever more intensive stages of contact, interpenetration, and cultural expansion and amalgamation; and arriving at a twenty-first-century world in which people increasingly visualize, and sometimes challenge, a single global community.

Process, not progress, is the keynote of this book: a steady process of change over time, at first experienced differently in various regions but eventually connecting peoples and traditions from all parts of the globe. Students should come away from this book with a sense that the problems and promises of their world are rooted in a past in which people of every sort, in every part of the world, confronted problems of a similar character and coped with them as best they could. We believe that our efforts will help students see where their world has come from and thereby learn something useful for their own lives.

# **Central Themes and Goals**

We subtitled *The Earth and Its Peoples* "A Global History" because the book explores the common challenges and experiences that unite the human past. Although the dispersal of early humans to every livable environment resulted in a myriad of different economic, social, political, and cultural systems, all societies displayed analogous patterns in meeting their needs and exploiting their environments. Our challenge was to select the particular data and episodes that would best illuminate these global patterns of human experience.

To meet this challenge, we adopted two themes for our history: "technology and the environment" and "diversity and dominance." The first theme represents the commonplace material bases of all human societies at all times. It grants no special favor to any cultural group even as it embraces subjects of the broadest topical, chronological, and geographical range. The second theme expresses the reality that every human society has constructed or inherited structures of domination. We examine practices and institutions of many sorts: military, economic, social, political, religious, and cultural, as well as those based on kinship, gender, and literacy. Simultaneously we recognize that alternative ways of life and visions of societal organization continually manifest themselves both within and in dialogue with every structure of domination.

With respect to the first theme, it is vital for students to understand that technology, in the broad sense of experience-based knowledge of the physical world, underlies all human activity. Writing is a technology, but so is oral transmission from generation to generation of lore about medicinal or poisonous plants. The magnetic compass is a navigational technology, but so is Polynesian mariners' hard-won knowledge of winds, currents, and tides that made possible the settlement of the Pacific islands.

All technological development has come about in interaction with environments, both physical and human, and has, in turn, affected those environments. The story of how humanity has changed the face of the globe is an integral part of our first theme. Yet technology and the environment do not explain or underlie all important episodes of human experience. The theme of "diversity and dominance" informs all our discussions of politics, culture, and society. Thus when narrating the histories of empires, we describe a range of human experiences within and beyond the imperial frontiers without assuming that imperial institutions are a more fit topic for discussion than the economic and social organization of pastoral nomads or the lives of peasant women. When religion and culture occupy our narrative, we focus not only on the dominant tradition but also on the diversity of alternative beliefs and practices.

# **Organization**

The *Earth and Its Peoples* uses eight broad chronological divisions to define its conceptual scheme of global historical development.

In **Part I: The Emergence of Human Communities, to 500 BCE**, we examine important patterns of human communal organization primarily in the Eastern Hemisphere. Small, dispersed human communities living by foraging spread to most parts of the world over tens of thousands of years. They responded to enormously diverse environmental conditions, at different times in different ways, discovering how to cultivate plants and utilize the products of domestic animals. On the basis of these new modes of sustenance, population grew, permanent towns appeared, and political and religious authority, based on collection and control of agricultural surpluses, spread over extensive areas.

**Part II: The Formation of New Cultural Communities, 1000 BCE-400 CE** introduces the concept of a "cultural community," in the sense of a coherent pattern of activities and symbols pertaining to a specific human community. While all human communities develop distinctive cultures, including those discussed in Part I, historical development in this stage of global history prolonged and magnified the impact of some cultures more than others. In the geographically contiguous African-Eurasian landmass, as well as in the Western Hemisphere, the cultures that proved to have the most enduring influence traced their roots to the second and first millennia BCE.

**Part III: Growth and Interaction of Cultural Communities, 300 BCE–1200 CE** deals with early episodes of technological, social, and cultural exchange and interaction on a continental scale both within and beyond the framework of imperial expansion. These are so different from earlier interactions arising from more limited conquests or extensions of political boundaries that they constitute a distinct era in world history, an era that set the world on the path of increasing global interaction and interdependence that it has been following ever since.

In **Part IV: Interregional Patterns of Culture and Contact, 1200–1550**, we look at the world during the three and a half centuries that saw both intensified cultural and commercial contact and increasingly confident self-definition of cultural communities in Europe, Asia, Africa, and the Americas. The Mongol conquest of a vast empire extending from the Pacific Ocean to eastern Europe greatly stimulated trade and interaction. In the West, strengthened European kingdoms began maritime expansion in the Atlantic, forging direct ties with sub-Saharan Africa and entering into conflict with the civilizations of the Western Hemisphere.

**Part V: The Globe Encompassed, 1500–1750** treats a period dominated by the global effects of European expansion and continued economic growth. European ships took over, expanded, and extended the maritime trade of the Indian Ocean, coastal Africa, and the Asian rim of the Pacific Ocean. This maritime commercial enterprise had its counterpart in European colonial empires in the Americas and a new Atlantic trading system. The contrasting capacities and fortunes of traditional land empires and new maritime empires, along with the exchange of domestic plants and animals between the hemispheres, underline the technological and environmental dimensions of this first era of complete global interaction.

In **Part VI: Revolutions Reshape the World, 1750–1870**, the word *revolution* is used in several senses: in the political sense of governmental overthrow, as in France and the Americas; in the metaphorical sense of radical transformative change, as in the Industrial Revolution; and in the broadest sense of a perception of a profound change in circumstances and worldview. Technology and environment lie at the core of these developments. With the rapid ascendancy of the Western belief that science and technology could overcome all challenges—environmental or otherwise—technology became an instrument not only of transformation but also of domination, to the point of threatening the integrity and autonomy of cultural traditions in nonindustrial lands and provoking strong movements of resistance.

**Part VII: Global Diversity and Dominance, 1750–1945** examines the development of a world arena in which people conceived of events on a global scale. Imperialism, international economic connections, and world-encompassing ideological tendencies, such as nationalism and socialism, present the picture of a globe becoming increasingly involved with European political and ideological concerns. Two world wars arising from European rivalries provide a climax to these developments, and European exhaustion affords other parts of the world new opportunities for independence and self-expression.

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For **Part VIII: Perils and Promises of a Global Community, 1945 to the Present**, we divide the period since World War II into three time periods: 1945–1975, 1975–2000, and 2000 to the present. The challenges of the Cold War and postcolonial nation building dominate much of the period and unleash global economic, technological, and political forces that become increasingly important in all aspects of human life. With the end of the Cold War, however, new forces come to the fore. Technology is a key topic in Part VIII because of its integral role in both the growth and the problems of a global community. However, its many benefits in improving the quality of life become clouded by negative impacts on the environment. Other negative impacts come from the spread of instability, terrorist disruption, and military intervention in many troubled parts of the globe along with a growth of animosity toward groups that are suspected of supporting such disruptions.

# **Features and New Pedagogical Aids**

As with previous editions, the seventh edition offers, in addition to enhanced visual design, a number of valuable features and pedagogical aids designed to pique student interest in specific world history topics and help them process and retain key information. Challenging questions designed to prompt inquiry into historical processes have been added to each map, to every feature box, and to the end of every chapter. And each of the eight parts now climaxes in two essays called Issues in World History and Material Culture. These are specifically designed to alert students to broad and recurring conceptual issues that are of great interest to contemporary historians. The Issues in World History essay for Part VIII, "Popular Culture: Words of Warning," is entirely new; "Religious Conversion" has been restored from an earlier edition; and "Little Ice Age" has been substantially updated. A Material Culture essay on "Roads" is also new. The Environment & Technology feature, which has been a valuable resource in all prior editions of The Earth and Its Peoples, serves to illuminate the major theme of the text by demonstrating the shared material bases of all human societies across time. Eight of the features are new with this edition: "Nomad Homes," "Roads," "Stained Glass Windows," "The West African Voyage of Hanno the Carthaginian," "East Asian Transportation," "Persian Rugs," "New Wars, New Tools," and "Intelligence and Technology." Finally, there are six new or heavily revised Diversity & Dominance features containing primary source readings that bring a myriad of real historical voices to life in the age-old tug-of-war between power and autonomy: "Poetry and Society in Early China and Greece," "Becoming Muslim," "Justice and Kingship," "Understanding Cross-Cultural Encounters," "The Manchu Moment from Ming to Ching," and "Madame de Staël Remembers Napoleon." Pedagogical aids include:

- Focus Questions These questions are keyed to every major subdivision of the chapter and serve to help students focus on the core chapter concepts.
- **Subsection Listings** These have been added to the chapter outline to make the structure of the chapter clear from the outset.
- Section Reviews Short bullet-point reviews summarize each major section in every chapter and remind students of key information.
- **Chapter Conclusions** Every chapter ends with a comparative conclusion that helps students better synthesize chapter material and understand how it fits into the larger picture.
- **Marginal Key Term with Definitions** Students can handily find key term definitions on the same page where the term first appears.
- **Pronunciation Guide** Hard-to-pronounce words are spelled phonetically for students throughout the text.
- **Suggested Readings** These have been expanded and resituated from the end of each chapter to a separate online instructor's resource.

# **Changes in This Edition**

In addition to the pedagogical aids outlined above, numerous chapter-by-chapter changes have been made, including new illustrations, new maps, streamlining of the textual discussion, and updates to many of the boxed feature essays. Here are a few highlights:

• Chapter 1 includes new discussion of the recent discovery of *Homo naledi* (now a key term) in South Africa, with a new photo of the skeleton of the hand and foot.

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- Chapter 3 contains a new Environment & Technology feature, "The West African Voyage of Hanno the Carthaginian," and includes new Map 3.6 depicting the path of Hanno's expedition. Crucial information from the previous edition's feature, "Ancient Textiles and Dyes," has been incorporated into the section on Phoenician city-states.
- Chapter 4 has a new Diversity & Dominance feature, "Poetry and Society in Early China and Greece," that compares outlooks on Chinese society through poems from the Chinese *Book of Songs*, with Greek poems by Sappho and Tyrtaeus.
- Chapter 7 includes new art, including a new chapter-opening photo of the exterior of the Temple of Minakshi at Madurai, a sculpture depicting Buddha at the moment he achieves enlightenment, and a new wall painting from the caves at Ajanta that reflects members of different castes and ethnic groups.
- Chapter 10 includes a new subsection, "Marginal Communities," as well as a Diversity & Dominance feature, "Becoming Muslim," that gives firsthand accounts of conversions to the faith.
- Chapter 12 has changed the title and all internal references from "Inner Asia" to "Central Asia." The introduction has also been heavily updated.
- Chapter 14 contains new discussion of the coach's introduction to western Europe from Hungary in the late 1400s. It also includes a new Environment & Technology feature, "Stained Glass Windows."
- Chapter 15 includes revisions to the introduction to the section "Tropical Africa and Asia" and the subsection "The Tropical Environment in Africa and Asia." The Diversity & Dominance feature contains a new excerpt from *The Tale of the Anklet*.
- In addition to several new illustrations, Chapter 17 contains added discussion of the Catholic Church's council meetings between 1545 and 1563 and of Phillip II.
- Chapter 18 contains new discussion of the application of the label "Indian" and the position of native elites, as well as new coverage of the hundreds of distinct native peoples in the English and French colonies in North America.
- Chapter 19 contains updates to the modern conversions of a planter's expenses and a rural laborer and wealthy noble family's incomes and provides the most recent research and statistics on the importation of African slaves into Islamic regions.
- Chapter 22 includes several new illustrations, as well as updated and expanded subsections on "Changes in Society," "Protests and Reforms," "India," and the "Conclusion."
- Chapter 23 contains new coverage of the baroness Germaine de Staël, including a portrait and a new Diversity & Dominance feature that uses an excerpt from de Staël's memoir to shed light on Napoleon's character.
- Chapter 24 includes an updated Environment & Technology feature, "The Web of War," with the addition of a firsthand account of the siege of Sevastopol (the Crimean capital) from the *Times* of London.
- Chapter 27 includes revisions to several sections, including "The New Power Balance, 1850–1900," "Nationalism and the Rise of Italy, Germany, and Japan," and "China, Japan, and the Western Powers."
- Chapter 28 includes a new Environment & Technology feature, "New War, New Tools," that describes the technological advances of World War I including chemical warfare, flamethrowers, concertina wire, radios, food rations, and camouflage.
- In this edition, the chapter "The Collapse of the Old Order, 1929–1949" (now Chapter 29) appears before the chapter "Revolutions in Living, 1900–1950" (now Chapter 30).
- Chapter 31 contains an updated introduction to Part VIII that adds insight about industrial and economic recovery after the end of World War II, as well as additions about global famine.
- Chapter 32 contains new and updated statistics throughout that reflect the most recent research, including data through 2000 in Table 32.1. The chapter also notes the recent violence and civil wars in Syria and Libya.
- Chapter 33 covers updates in world affairs through the first half of 2017, including the 2016 terror attacks in Paris and Brussels; the elevation of Pope Francis I; Brexit; the abortive military coup in Turkey in 2016; and the election of Donald Trump and the early acts of the new administration. The section "The Question of Values" has been moved and is now the first section in the chapter.

# **Formats**

To accommodate different academic calendars and approaches to the course, *The Earth and Its Peoples* is available in two formats. There is a one-volume hardcover version containing all 33 chapters, along with a two-volume paperback edition: Volume I: To 1550 (Chapters 1–16) and Volume II: Since 1500 (Chapters 16–33).

### **MindTap**

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MindTap for *The Earth and Its Peoples*, 7e, is a flexible, online learning platform that provides students with an immersive learning experience to build and foster critical thinking skills. Through a carefully designed chapter-based learning path, MindTap allows students to easily identify learning objectives; draw connections and improve writing skills by completing unit-level essay assignments; read short, manageable sections from the e-book; and test their content knowledge with map- and timeline-based critical thinking questions.

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## **Supplements**

**Instructor's Companion Website** The Instructor's Companion Website, accessed through the Instructor Resource Center (*login.cengage.com*), houses all of the supplemental materials you can use for your course. This includes a Test Bank, Instructor's Manual, and PowerPoint Lecture Presentations. The Test Bank, offered in Cognero<sup>®</sup> formats, contains multiple-choice and essay questions for each chapter. Cognero<sup>®</sup> is a flexible, online system that allows you to author, edit, and manage test bank content for *The Earth and Its Peoples*, 7e. Create multiple test versions instantly and deliver through your LMS from your classroom, or wherever you may be, with no special installs or downloads required. The Instructor's Resource Manual includes chapter summaries, suggested lecture topics, map exercises, discussion questions for the primary sources, topics for student research, relevant websites, suggestions for additional videos, and online resources for information on historical sites. Finally, the PowerPoint lectures are ADA-compliant slides collate the key takeaways from the chapter in concise visual formats perfect for in-class presentations or for student review.

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**Doing History: Research and Writing in the Digital Age, 2e ISBN 9781133587880** Prepared by Michael J. Galgano, J. Chris Arndt, and Raymond M. Hyser of James Madison University. Whether you're starting down the path as a history major or simply looking for a straightforward, systematic guide to writing a successful paper, this text's "soup to nuts" approach to researching and writing about history addresses every step of the process: locating your sources, gathering information, writing and citing according to various style guides, and avoiding plagiarism.

*Writing for College History*, **1e ISBN 9780618306039** Prepared by Robert M. Frakes of Clarion University. This brief handbook for survey courses in American, western, and world history guides students through the various types of writing assignments they may encounter in a history class. Providing examples of student writing and candid assessments of student work, this text focuses on the rules and conventions of writing for the college history course.

**The Modern Researcher, 6e ISBN 9780495318705** Prepared by Jacques Barzun and Henry F. Graff of Columbia University. This classic introduction to the techniques of research and the art of expression thoroughly covers every aspect of research, from the selection of a topic through the gathering of materials, analysis, writing, revision, and publication of findings. They present the process not as a set of rules but through actual cases that put the subtleties of research in a useful context. Part I covers the principles and methods of research; Part II covers writing, speaking, and getting one's work published.

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When textbook authors set out on a project, they are inclined to believe that 90 percent of the effort will be theirs and 10 percent that of various editors and production specialists employed by their publisher. How very naive. This book would never have seen the light of day had it not been for the unstinting labors of the great team of professionals who turned the authors' words into beautifully presented print and supplied a marvelous set of visual accompaniments. Our debt to the staff of Cengage Learning remains undiminished in the seventh edition. Scott Greenan helped shape this edition as Product Manager for Western Civilization and World History. Sarah Edmonds, our Content Developer, has been an extraordinarily helpful and multitasking manager for the project. Phil Scott has overseen the technical side of things as Project Manager from SPi Global. Carol Newman, our coworker for several editions, has again kept us on schedule. And Charlotte Miller continues to do her wonderful work on maps.

We also thank the many students whose questions and concerns, expressed directly or through their instructors, shaped much of this revision. We continue to welcome all readers' suggestions, queries, and criticisms. Please contact us at our respective institutions.

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**Daniel R. Headrick** Daniel R. Headrick received his Ph.D. in History from Princeton University. Professor of History and Social Science, Emeritus, at Roosevelt University in Chicago, he is the author of several books on the history of technology, imperialism, and international relations, including *The Tools of Empire: Technology and European Imperialism in the Nineteenth Century; The Tentacles of Progress: Technology Transfer in the Age of Imperialism; The Invisible Weapon: Telecommunications and International Politics; Technology: A World History; Power Over Peoples: Technology, Environments and Western Imperialism, 1400 to the Present; and When Information Came of Age: Technologies of Knowledge in the Age of Reason and Revolution, 1700–1850. Dr. Headrick's articles have appeared in the <i>Journal of World History* and the *Journal of Modern History*, and he has been awarded fellowships by the National Endowment for the Humanities, the John Simon Guggenheim Memorial Foundation, and the Alfred P. Sloan Foundation.

**David Northrup** David Northrup earned his Ph.D. in African and European History from the University of California, Los Angeles. He has published scholarly works on African, Atlantic, and world history. Dr. Northrup's most recent books are *How English Became the Global Language*, the third edition of *Africa's Discovery of Europe*, 1450–1850, and the *Diary of Antera Duke*, an Eighteenth-Century African Slave Trader. He taught at a rural secondary school in Nigeria, Tuskegee Institute in Alabama, Boston College, and Venice International University and is a past president of the World History Association.

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# Note on Spelling and Usage

Where necessary for clarity, dates are followed by the letters CE or BCE. The abbreviation CE stands for "Common Era" and is equivalent to AD (anno Domini, Latin for "in the year of the Lord"). The abbreviation BCE stands for "before the Common Era" and means the same as BC ("before Christ"). In keeping with our goal of approaching world history without special concentration on one culture or another, we chose these neutral abbreviations as appropriate to our enterprise. Because many readers will be more familiar with English than with metric measurements, however, units of measure are generally given in the English system, with metric equivalents following in parentheses.

In general, Chinese has been Romanized according to the pinyin method. Exceptions include proper names well established in English (e.g., Canton, Chiang Kaishek) and a few English words borrowed from Chinese (e.g., kowtow). Spellings of Arabic, Ottoman Turkish, Persian, Mongolian, Manchu, Japanese, and Korean names and terms avoid special diacritical marks for letters that are pronounced only slightly differently in English. An apostrophe is used to indicate when two Chinese syllables are pronounced separately (e.g., Chang'an).

For words transliterated from languages that use the Arabic script—Arabic, Ottoman Turkish, Persian, Urdu—the apostrophe indicating separately pronounced syllables may represent either of two special consonants, the hamza or the ain. Because most English-speakers do not hear the distinction between these two, they have not been distinguished in transliteration and are not indicated when they occur at the beginning or end of a word. As with Chinese, some words and commonly used place-names from these languages are given familiar English spellings (e.g., Quran instead of Qur'an, Cairo instead of al-Qahira). Arabic romanization has normally been used for terms relating to Islam, even where the context justifies slightly different Turkish or Persian forms, again for ease of comprehension.

Before 1492 the inhabitants of the Western Hemisphere had no single name for themselves. They had neither a racial consciousness nor a racial identity. Identity was derived from kin groups, language, cultural practices, and political structures. There was no sense that physical similarities created a shared identity. America's original inhabitants had racial consciousness and racial identity imposed on them by conquest and the occupation of their lands by Europeans after 1492. All of the collective terms for these first American peoples are tainted by this history. *Indians, Native Americans, Amerindians, First Peoples,* and *Indigenous Peoples* are among the terms in common usage. In this book the names of individual cultures and states are used wherever possible. Amerindian and other terms that suggest transcultural identity and experience are used most commonly for the period after 1492.

There is an ongoing debate about how best to render Amerindian words in English. It has been common for authors writing in English to follow Mexican usage for Nahuatl and Yucatec Maya words and place-names. In this style, for example, the capital of the Aztec state is spelled Tenochtitlán, and the important late Maya city-state is spelled Chichén Itzá. Although these forms are still common even in the specialist literature, we have chosen to follow the scholarship that sees these accents as unnecessary. The exceptions are modern place-names, such as Mérida and Yucatán, which are accented. A similar problem exists for the spelling of Quechua and Aymara words from the Andean region of South America. Although there is significant disagreement among scholars, we follow the emerging consensus and use the spellings *khipu* (not *quipu*), *Tiwanaku* (not *Tiahuanaco*), and *Wari* (not *Huari*). In this edition we have introduced the now common spelling *Inka* (not *Inca*) but keep *Cuzco* for the capital city (not *Cusco*), since this spelling facilitates locating this still-important city on maps.

# The Earth and Its Peoples

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# The Emergence of Human Communities, to 500 BCE

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Nature, Humanity, and History, to 3500 BCE The First River-Valley Civilizations, 3500–1500 BCE The Mediterranean and Middle East, 2000–500 BCE New Civilizations Outside the West Asian Core Area, 2300 BCE–350 CE

uman beings evolved over several million years from primates in Africa. Able to walk upright and possessing large brains, hands with opposable thumbs, and the capacity for speech, early humans used teamwork and created tools to survive in diverse environments. They spread relatively quickly to almost every habitable area of the world, hunting and gathering wild plant products. Around 10,000 years ago some groups began to cultivate plants, domesticate animals, and make pottery vessels for storage. These developments led to permanent settlements-at first small villages but eventually larger towns.

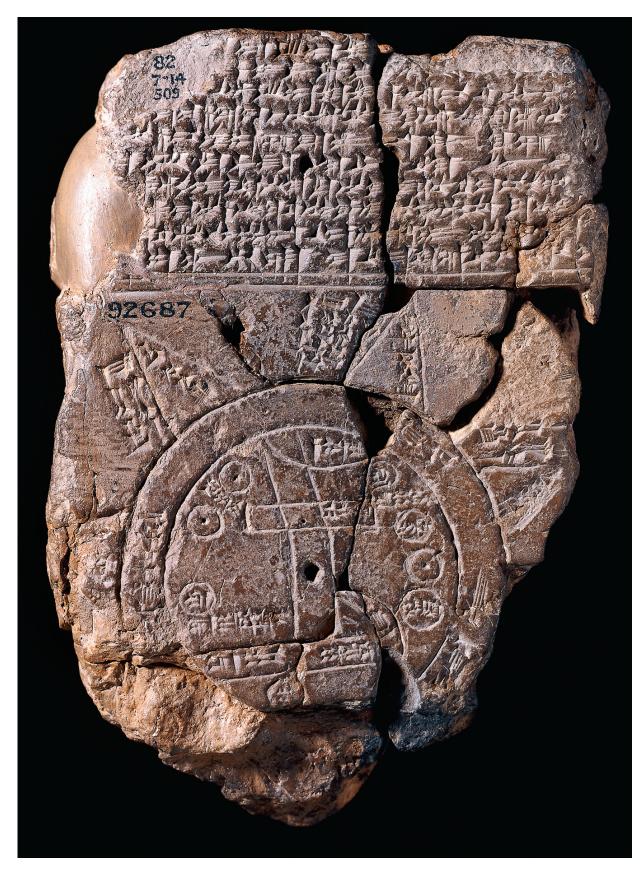
The earliest complex societies arose in the great river valleys of Mesopotamia, Egypt, Pakistan, and northern China. In these arid regions agriculture depended on river water, and centers of political power arose to organize the labor required to dig and maintain irrigation channels. Kings and priests dominated these early societies from the urban centers, helped by administrators, scribes, soldiers, merchants, craftsmen, and others with specialized skills. Surplus food grown in the countryside by a dependent peasantry sustained the activities of these groups.

As they sought access to raw materials, especially metals, certain

centers came to dominate broader expanses of territory. This development also stimulated long-distance trade and diplomatic relations between major powers. Artisans made weapons, tools, and ritual objects from bronze, and culture and technology spread to neighboring regions, such as southern China, Nubia, Syria-Palestine, Anatolia, and the Aegean.

In the Western Hemisphere, different geographical circumstances led to distinctive patterns of technological and cultural response. These early civilizations in southern Mexico and the Andean region of South America are discussed in Part II.

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▲ Babylonian Map of the World, ca. 600 BCE This map on a clay tablet, with labels written in Akkadian cuneiform, shows a flat, round world with the city of Babylon at the center. Nearby features of the Mesopotamian landscape include the Euphrates River, mountains, marshes, and cities. Beyond the great encircling salt sea are seven islands. Like many ancient peoples, the Babylonians believed that distant lands were home to legendary beasts, strangely formed peoples, and mysterious natural phenomena. The Trustees of the British Museum/Art Resource, NY

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#### CHAPTER OUTLINE

#### **1-1 African Genesis**

1-1a Interpreting the Evidence

- 1-1b Human Evolution
- 1-1c Migrations from Africa

#### 1-2 Technology and Culture in the Ice Age

- 1-2a Food Gathering and Stone Tools
- 1-2b Gender Roles and Social Life
- 1-2c Hearths and Cultural Expressions

#### **1-3 The Agricultural Revolutions**

1-3a The Transition to Plant Cultivation

- 1-3b Domesticated Animals and Pastoralism
- 1-3c Agricultural and Ecological Crisis

#### **1-4 Life in Neolithic Communities**

- 1-4a The Triumph of Food Producers
- 1-4b Cultural Expressions
- 1-4c Early Towns and Specialists

#### **1-5 Conclusion**

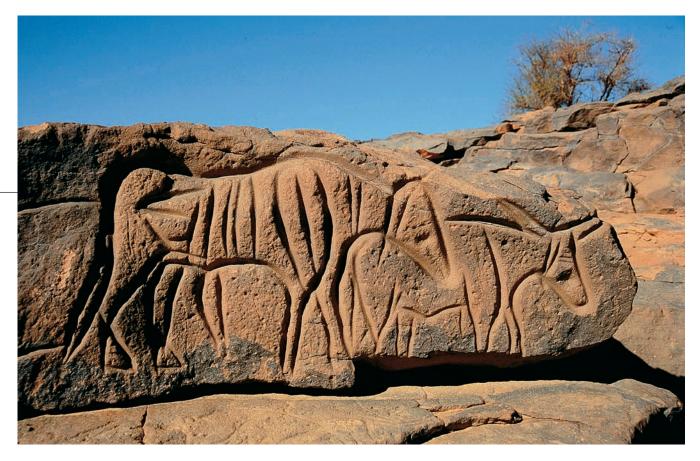
- DIVERSITY & DOMINANCE Cave Art
- ENVIRONMENT & TECHNOLOGY The Iceman

# Nature, Humanity, and History, to 3500 BCE

aintings and engravings on stone created tens of thousands of years ago by early humans have been found on every continent. Someone in Central Africa carved this image of cattle around 5000 BCE, when the Sahara was not a desert but a verdant savanna supporting numerous species of wildlife. Why the image was carved and what significance it originally held will likely remain a mystery, but for us it is a beautiful work of art that reveals much about our human ancestry.

Long before the invention of writing, societies told themselves stories about how human beings and the natural world were created. Some, like the Yoruba (**yoh-roo-bah**) people of West Africa, related that the first humans came down from the sky; others, like the Hopi of southwest North America, claimed that they emerged out of a hole in the earth. Although such creation myths typically explain how a people's way of life, social divisions, and cultural system arose, historical accuracy in the modern sense was not their primary purpose. As with the story of Adam and Eve in the Hebrew Bible, their goal was to define the moral principles that people thought should govern their dealings with the supernatural world, with each other, and with the rest of nature.

In the nineteenth century evidence began to accumulate about the actual origins of humanity. Natural scientists were finding remains of early humans who resembled apes. Other discoveries suggested that the familiar ways of life based on farming and herding did not arise within a generation or two of creation, as many myths suggested, but tens of thousands of years after humans first appeared. This evidence provides insights into human identity that are as meaningful as those propounded by the creation myths.



▲ Engraving of Two Cattle in the Sahara, ca. 5000 BCE Around 10,000 people settled in the central Sahara and began to engrave rocks with pictures of animals. The engravings display an expert knowledge of animal stance, movement, and anatomy. David Coulson/Robert Estall Photo Agency

# **African Genesis**

In light of scientific advances in our understanding of human origins, what have we learned about our relationship to the earth and other living species?

The discovery in the mid-nineteenth century of the remains of ancient creatures that had both humanlike and apelike features generated excitement and controversy. The finds upset many people because they challenged religious beliefs about human origins. Others welcomed the new evidence for what some had long suspected: that the physical characteristics of modern humans had evolved over incredibly long periods of time.

#### **1-1a Interpreting the Evidence**

In 1856 in the Neander Valley of Germany, laborers discovered fossilized bones of a creature with a body much like that of modern humans but with a face that had heavy brow ridges and a low forehead, like the faces of apes. Although we now know these were Neanderthals, a type of human common in Europe and the Middle East from 135,000 to 25,000 years ago, in the midnineteenth century the idea of humans that different from modern people was so novel that some scholars thought they must be deformed individuals from recent times.

Three years after the Neanderthal finds, Charles Darwin, a young English *naturalist* (student of natural history), published *On the Origin of Species*, in which he argued that the time frame for all biological life was far longer than most people supposed. Darwin based his conclusion on the pioneering research of others and on his own investigations of fossils and living plant and animal species in Latin America. He proposed that the great diversity of living species and the profound changes in them over time could be explained by natural selection,

the process by which biological variations that enhance a population's ability to survive become dominant in that species. He theorized that, over long periods of time, the changes brought about by this process could lead to the **evolution** of distinct new species.

Turning to the sensitive subject of human evolution in *The Descent of Man* (1871), Darwin summarized the growing consensus among naturalists that human beings had come into existence through the same process of natural selection. Because humans shared so many physical similarities with African apes, he proposed Africa as the home of the first humans, even though there was no fossil evidence at the time to support his hypothesis.

The next major discoveries pointed to Asia, rather than Africa, as the original human home. On the Indonesian island of Java in 1891, Eugene Dubois uncovered an ancient skullcap of what was soon called Java man. In 1929 near Peking (an old form of Beijing [**bay-jeeng**]), China, W. C. Pei discovered a similar skullcap of what became known as Peking man.

By then, even older fossils had been found in southern Africa. In 1924 Raymond Dart found the skull of a creature that he named *Australopithecus africanus* (aw-strah-loh-PITH-uh-kuhs ah-frih-KAH-nuhs) (African southern ape), which he argued was transitional between apes and early humans. For many years most specialists disputed Dart's idea because, although *Australopithecus africanus* walked upright like a human, its brain was the size of an ape's.

Since 1950, Louis and Mary Leakey and their son Richard, along with many others, have discovered a wealth of early human fossils in the exposed sediments of the Great Rift Valley of eastern Africa. These finds are strong evidence for Dart's hypothesis and for Darwin's guess that the tropical habitat of the African apes was the cradle of humanity.

The development of modern archaeological techniques has added to our knowledge. Rather than collect isolated bones, researchers sift the neighboring soils to extract the fossilized remains of other creatures, seeds, and even pollen existing at the time, documenting the environment in which early humans lived. They can also measure the age of most finds by the rate of molecular change in potassium, contained in minerals in lava flows, or in carbon from wood and bone.

A major new approach was made possible by the full decipherment of the human genetic code in 2003. Researchers have been able to extrapolate backward from genetic differences among contemporary human populations to answer such questions as when language first emerged; the approximate size and location in northeast Africa of the ancestral human population and the date when some of its members moved out of the continent; the paths taken by migrating groups as humans ultimately spread to all habitable parts of the planet; and when the skin color of the various human populations developed.

By combining these forms of evidence with the growing understanding of how other species adapt to their natural environments, researchers can trace the evolutionary changes that produced modern humans over the course of millions of years.

#### **1-1b Human Evolution**

Biologists classify **australopithecines (aw-strah-loh-PITH-uh-seen)** and humans as members of a family of primates known as **hominids (HOM-uh-nid)**. Primates are members of a class of warm-blooded, four-limbed, social animals known as mammals that came to prominence about 65 million years ago. The first hominids are now dated to about 7 million years ago.

Among living primates, modern humans are most closely related to the African apes chimpanzees and gorillas. Since Darwin's time it has been popular (and controversial) to say that we are descended from apes. In fact, apes and humans share a common ancestor. Over 99 percent of human deoxyribonucleic acid (DNA), the basic genetic blueprint, is identical to that of the great apes. But three traits distinguish humans from apes and other primates. The earliest of these traits to appear was **bipedalism** (walking upright on two legs). Being upright frees the forelimbs from any role in locomotion and enhances an older primate trait: a hand with a long, opposable thumb that can work with the fingers to manipulate objects skillfully. Modern humans' second distinctive trait is a very large brain. Besides enabling humans to think abstractly, experience profound emotions, and construct complex social relationships, this larger brain controls the fine motor movements of the hand and of the tongue, increasing humans' tool-using capacity and facilitating the development of speech. The physical possibility of language, however, depends on a third distinctive human trait: the location of the *larynx* (voice box). In humans it lies much lower in the neck than in any other primate.

evolution The biological theory that, over time, changes occurring in plants and animals, mainly as a result of natural selection and genetic mutation, result in new species.

**australopithecines** The several extinct species of humanlike primates that existed from about 4.5 million years ago to 1.4 million years ago (genus Australopithecus).

**hominids** The biological family that includes humans and humanlike primates.

**bipedalism** The ability to walk upright on two legs, characteristic of hominids.

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THE REAL PROPERTY OF THE PARTY	E			
Chronology				
T. Ist	Geological Epochs	Species and Migrations	Technological Advances	
7,000,000 BCE		7,000,000 BCE Earliest hominids		
4,000,000 BCE		4,500,000 BCE Australopithecines 2,300,000 BCE Early <i>Homo habilis</i>	2,600,000 BCE Earliest stone tools; hunting-and-gathering (foraging) societies	
2,000,000 BCE	2,000,000–9000 BCE Pleistocene (Great Ice Age)	1,800,000–350,000 BCE <i>Homo erectus</i>	2,000,000–8000 BCE Paleolithic (Old Stone Age)	
1,000,000 BCE			500,000 BCE Use of fire	
200,000 BCE		200,000–100,000 BCE Anatomically modern <i>Homo sapiens</i> in Africa 80,000–50,000 BCE Behaviorally modern <i>Homo sapiens</i> possessing language; migrations to Eurasia 46,000 BCE Modern humans in Australia 18,000 BCE Modern humans in Americas	30,000 BCE First cave paintings	
10,000 BCE	9000 BCE-present Holocene		8000–2000 BCE Neolithic (New Stone Age); earliest agriculture	

These critical biological traits are due to natural selection, the preservation of genetic changes that enhanced the ability of the ancestors of modern humans to survive and reproduce. Major shifts in the world's climate led to evolutionary changes in human ancestors and other species. Falling temperatures culminated in the **Great Ice Age**, or Pleistocene (**PLY-stuh-seen**) epoch, extending from about 2 million to about 9000 BCE (see Chronology). These temperature changes and altered rainfall and vegetation imposed great strains on plant and animal species, causing large numbers of new species to evolve.

Beginning approximately 4.5 million years ago, several species of australopithecines evolved in southern and eastern Africa. In northern Ethiopia in 1974, Donald Johanson unearthed a well-preserved skeleton of a twenty-five-year-old female, whom he nicknamed Lucy. Mary Leakey's discovery of fossilized footprints in Tanzania in 1977 provided spectacular visual evidence that australopithecines walked on two legs.

Bipedalism evolved because it provided australopithecines with some advantage for survival. Some studies suggest that walking and running on two legs is very energy efficient. Another theory is that bipeds survived better because they could carry armfuls of food back to their mates and children.

Climate changes between 2 and 3 million years ago led to the evolution of a new species, the first to be classified in the same genus (*Homo*) with modern humans. At Olduvai (ol-DOO-vy) Gorge in northern Tanzania in the early 1960s, Louis Leakey discovered the fossilized remains of a creature that he named *Homo habilis* (HOH-moh HAB-uh-luhs) (handy human). What most distinguished *Homo habilis* from the australopithecines was a brain that was nearly 50 percent larger. Greater intelligence may have enabled *Homo habilis* to locate things to eat throughout the seasons of the year. Seeds and other fossilized remains found in ancient *Homo habilis* camps indicate that the new species ate a greater variety of more nutritious foods than did australopithecines.

By 1 million years ago *Homo habilis* and all the australopithecines had become extinct. In their habitat lived a new hominid, *Homo erectus* (HOH-moh ee-REK-tuhs) (upright human), which first appeared in eastern Africa about 1.8 million years ago. (It is uncertain whether *Homo erectus* evolved from *Homo habilis* or both species descended from *Australopithecus*.) These creatures possessed brains a third larger than those of *Homo habilis*, which presumably accounted for their better survivability. A nearly complete skeleton of a twelve-year-old male of the species discovered by Richard Leakey in 1984 on the shores of Lake Turkana in Kenya shows

**Great Ice Age** Geological era that occurred between about 2 million and 11,000 years ago.

1-1 African Genesis 7

*Homo habilis* The first human species (now extinct). It evolved in Africa about 2.3 million years ago.

*Homo erectus* An extinct human species. It evolved in Africa about 1.8 million years ago.



▲ Hand and Foot of *Homo naledi* The foot is designed for walking upright, while the hand combines more modern features with curved fingers for climbing trees.



▲ Skull Casts of Early Hominids These skulls show the extensive cranial changes associated with the increase in brain size during 2.5 million years of evolutionary change. *Australopithecus* on the left, *Homo erectus* in the middle, *Homo sapiens* on the right.

that *Homo erectus* closely resembled modern people from the neck down. *Homo erectus* was very successful in dealing with different environments and underwent hardly any biological changes for over a million years.

A recent discovery in South Africa both complicates our understanding of human evolution and challenges a number of conventional beliefs. Over 1,500 bone fragments from fifteen or more individuals have been excavated from a remote and not easily accessible cave floor. *Homo naledi*, as the new species has been called, displays a curious mix of more and less primitive features. The skull and small brain are similar to those of australopithecines, but other features are like those of more advanced hominids, including feet designed for walking upright and long, curved hands that would have made it adept at climbing trees. There is still much controversy about the dating of this species, based largely on comparing its skeletal features with those of other hominid types, with suggested dates ranging between 2 million and 900,000 years ago. Experts are also still debating whether the bones were purposely

> deposited deep in the cave as a kind of burial and whether this would have required the use of torches. Even on the later proposed dating, this would attest to the use of fire and the existence of social rituals long before these behaviors existed according to the conventional view.

> Sometime between 200,000 and 100,000 years ago, a new human species emerged: *Homo sapiens* (HOH-moh SAY-pee-enz) (wise human). The brains of *Homo sapiens* were a third larger than those of *Homo erectus*, whom they gradually superseded. Although this species was anatomically similar to people today, archaeological and genetic evidence suggest that a further development sometime between 80,000 and 50,000 years ago produced the first behaviorally modern humans, with the intellectual and social capabilities that we have.

> There is no scholarly consensus on when, why, or how humans developed the capacity to speak. In the absence of tangible evidence, this question has

even been labeled "the hardest problem in science." Assuming that the shape of the throat and low position of the larynx are essential to vocalizing a wide range of sounds, it ought to be relevant that these features were still evolving in *Homo habilis* and *Homo erectus*. Some scholars link the development of language in the fullest sense to the period around 70,000 years ago when *Homo sapiens* began to migrate out of Africa and employed a larger, more sophisticated set of tools that can be sorted into functional categories.

This slow but remarkable process of physical evolution, which distinguished humans from other primates, was one part of what was happening. Equally remarkable was the way in which humans were extending their habitat.

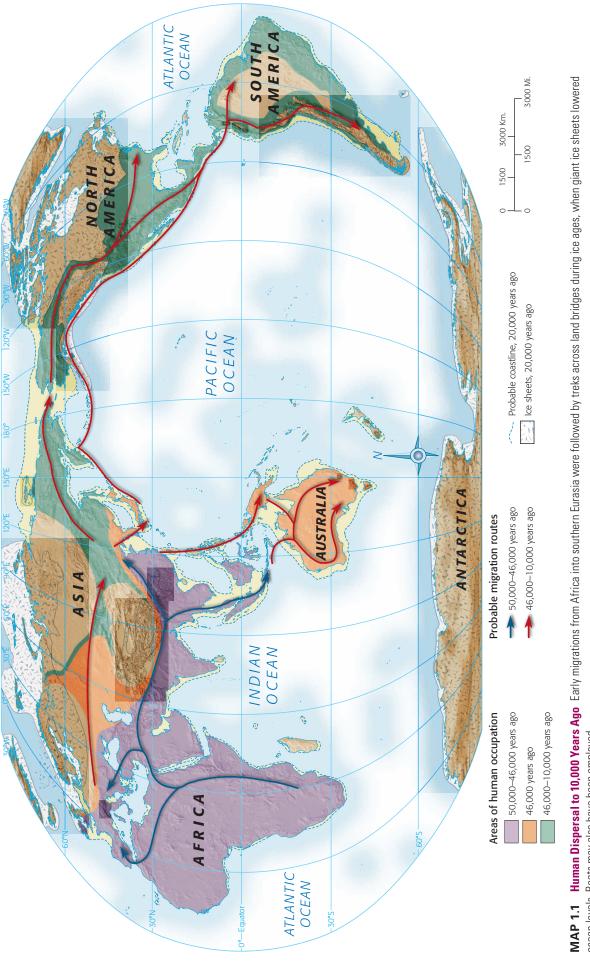
#### **1-1c Migrations from Africa**

Early humans first expanded their range in eastern and southern Africa. Then they ventured out of Africa, perhaps following migrating herds of animals or searching for more abundant food supplies in a time of drought. The reasons are uncertain, but the end results are vividly clear: humans successfully colonized diverse environments, including deserts and arctic lands (see Map 1.1). This dispersal demonstrates early humans' talent for adaptation.

Homo erectus was the first human species to inhabit all parts of Africa and to be found outside Africa. Java man and Peking man were members of this species. At that time, Java was

*Homo naledi* A recently discovered early hominid with a puzzling mix of primitive and more advanced features.

*Homo sapiens* The current human species. It evolved in Africa sometime between 400,000 and 100,000 years ago.



ocean levels. Boats may also have been employed.

Which regions of human settlement could only have been reached by boat?

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