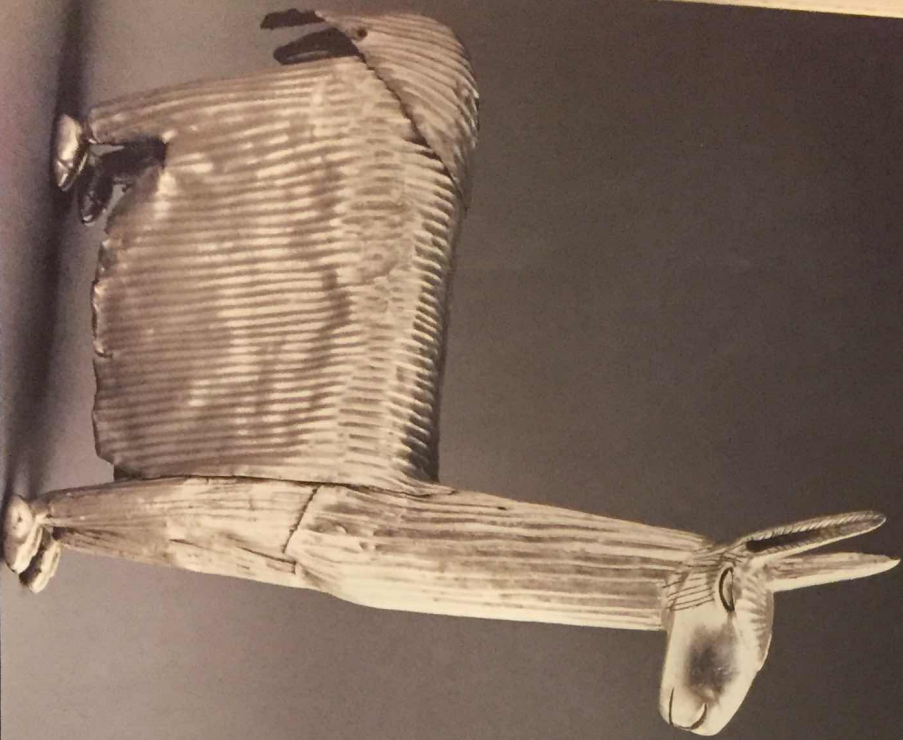


21

Worlds Apart: The Americas and Oceania



States and Empires in Mesoamerica
and North America
The Coming of the Incas
Inca Society and Religion
Inca Society and Religion
The Societies of Oceania
The Nomadic Foragers of Australia
The Development of Pacific Island Societies

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In November 1519 a small Spanish army entered Tenochtitlan, capital city of the Aztec empire. The Spanish forces came in search of gold, and they had heard many reports about the wealth of the Aztec empire. Yet none of those reports prepared them adequately for what they saw.

Years after the conquest of the Aztec empire, Bernal Diaz del Castillo, a soldier in the Spanish army, described Tenochtitlan at its high point. The city itself sat in the water of Lake Texcoco, connected to the surrounding land by three broad causeways, and as in Venice, canals allowed canoes to navigate to all parts of the city. The imperial palace included many large rooms and apartments. Its armory, well stocked with swords, lances, knives, bows, arrows, slings, armor, and shields, attracted Bernal Diaz's professional attention. The aviary of Tenochtitlan included eagles, hawks, parrots, and smaller birds in its collection, and jaguars, mountain lions, wolves, foxes, and rattlesnakes were noteworthy residents of the zoo.

To Bernal Diaz the two most impressive sights were the markets and the temples of Tenochtitlan. The markets astonished him because of their size, the variety of goods they offered, and the order that prevailed there. In the principal market at Tlatelolco, a district of Tenochtitlan, Bernal Diaz found gold and silver jewelry, gems, feathers, embroidery, slaves, cotton, cacao, animal skins, maize, beans, vegetables, fruits, poultry, meat, fish, salt, paper, and tools. It would take more than two days, he said, to walk around the market and investigate all the goods offered for sale. His well-traveled companions-in-arms compared the market of Tlatelolco favorably to those of Rome and Constantinople.

The temples also struck Bernal Diaz, though in a different way. Aztec temples were the principal sites of rituals involving human sacrifice. Bernal Diaz described his ascent to the top of the main pyramidal temple in Tenochtitlan, where fresh blood lay pooled around the stone that served as a sacrificial altar. He described priests with hair entangled and matted with blood. Inferior rooms of the temple were so encrusted with blood, Bernal Diaz reported, that their walls and floors had turned black, and the stench overcame even professional Spanish soldiers. Some of the interior rooms held the dismembered limbs of sacrificial victims, and others were resting places for thousands of human skulls and bones.

The contrast between Tenochtitlan's markets and its temples challenged Bernal Diaz and his fellow soldiers. In the markets they witnessed peaceful and orderly exchange of the kind that took place all over the world in the temples, however, they saw signs of human sacrifice on a scale rarely matched, if ever, anywhere in the world. Yet by the cultural standards of the Aztec empire, there was no difficulty reconciling the commercial activity of the marketplace with the human sacrifice of the temples. Both had a place in the maintenance of the world:

Tenochtitlan (the NOCH-
tee-tlahn)

OPPOSITE: A handsome llama fashioned from silver sheet from Inca Peru.

trade established a complex society in Teotihuacan, with wealthy elites presiding over the goods and persuading them to bring the society going.

Although the peoples of Aztec, Maya, and Taino societies rapidly became sedentary, the indigenous peoples of the Americas had only sporadic dealings with their neighbors across the oceans. Scattered American societies established a short-lived colony in North America, but no sustained high-level society. The first high-level society in North America was the Hohokam, which began to develop around 1000 C.E. The Hohokam was a complex society that developed in the southwestern United States. The Hohokam was a complex society that developed in the southwestern United States. The Hohokam was a complex society that developed in the southwestern United States.

The indigenous peoples of Australia and the Pacific Islands had complex and sophisticated societies with people living in large, permanent settlements. The indigenous peoples of Australia and the Pacific Islands had complex and sophisticated societies with people living in large, permanent settlements. The indigenous peoples of Australia and the Pacific Islands had complex and sophisticated societies with people living in large, permanent settlements.

States and Empires in Mesoamerica and North America

Mesoamerica entered an era of war and conquest in the eighth century C.E. Great cities of wealth had accumulated in Teotihuacan, the largest city in Mesoamerica. Teotihuacan declined, it became a target for two progressive but well-organized forces from the countryside and northern Mexico. Atlixco on Teotihuacan opened a long era of militarization and empire building in Mesoamerica that lasted until Spanish invasion conquered the region in the sixteenth century. Most prominent of the people creating the power in Mesoamerica were the Mexica, the architects of the Aztec empire.

The Toltecs and the Mexica

During the ninth and early tenth centuries, after the collapse of Teotihuacan, several regional states dominated portions of the high central valley of Mexico, the area surrounding Mexico City where agricultural societies had flourished since the late prehistoric era. Although these successor states and their societies shared the religious and cultural traditions of Teotihuacan, they fought relentlessly among themselves. Their capital cities all stood on well-defended hill sites, and warriors figured prominently in their works of art.

With the emergence of the Toltecs and later the Mexica, much of central Mexico again came under unified rule. The Toltecs began to migrate into the area about the eighth century. They came from the end land of northwestern Mexico, and they set

up a state in Tula, about 100 kilometers (60 miles) northwest of Teotihuacan. The Toltecs entered the valley of Mexico and presided over the city and its surrounding area. The Toltecs entered the valley of Mexico and presided over the city and its surrounding area. The Toltecs entered the valley of Mexico and presided over the city and its surrounding area.

The city of Tula became an important center of weaving, pottery, and education. The city of Tula became an important center of weaving, pottery, and education. The city of Tula became an important center of weaving, pottery, and education.

Beginning about 1125 C.E., the Toltec empire had serious difficulties in conflict between the different ethnic groups living in Tula. The Toltec empire had serious difficulties in conflict between the different ethnic groups living in Tula. The Toltec empire had serious difficulties in conflict between the different ethnic groups living in Tula.

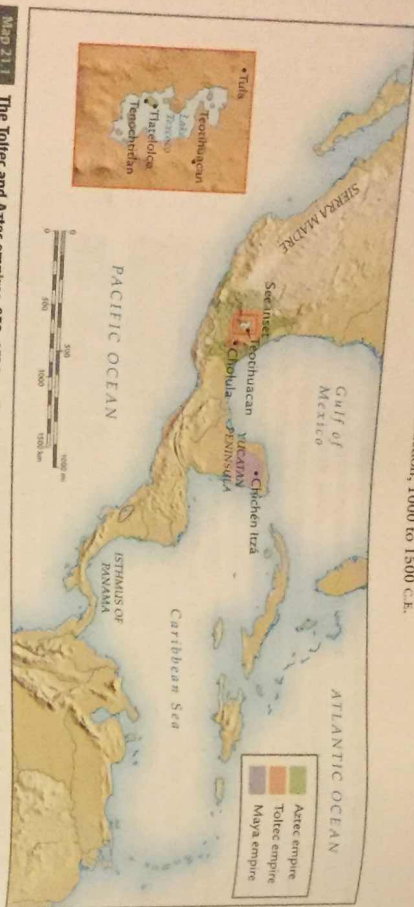
Among the empires, there is a great deal of evidence that the Toltecs were a people who called themselves the Mexica. The Toltecs were a people who called themselves the Mexica. The Toltecs were a people who called themselves the Mexica.

About 1345 the Mexica settled on an island in a marshy region of Lake Texcoco and founded the city that would become their capital—Tenochtitlan, on top of which Spanish conquerors later built Mexico City. Through conquest and trade, the Mexica became a powerful state. The Mexica became a powerful state. The Mexica became a powerful state.

Tula

The Mexica

Tenochtitlan



Map 21.1 The Aztec and Mayan empires, 950-1520 C.E. The Aztec empire stretched from the Gulf of Mexico to the Pacific Ocean. How were Aztec rulers able to control these diverse territories?

The Aztec Empire

By the early fifteenth century, the Mexica were powerful enough to overcome their immediate neighbors and demand tribute from their new subjects. During the middle decades of the century, prodded by the military elite that ruled Tenochtitlan, the Mexica launched ambitious campaigns of imperial expansion. Under the rule of “the Obsidian Serpent” Itzcoatl (1428-1440) and Motecuzoma I (1440-1469), also known as Moctezuma or Montezuma, they advanced first against Oaxaca in southwestern Mexico. After conquering the city and slaying many of its inhabitants, they populated Oaxaca with colonists, and the city became a bulwark for the emerging Mexica empire.

The Mexica next turned their attention to the Gulf coast, whose tropical products made welcome tribute items in Tenochtitlan. Finally, they conquered the cities of the high plateaus between Tenochtitlan and the Gulf coast. About the mid-fifteenth century the Mexica joined forces with two neighboring cities, Texcoco and Tlacopan (modern Tacuba), to create a triple alliance that guided the Aztec empire. Dominated by the Mexica and Tenochtitlan, the allies imposed their rule on about twelve million people and most of Mesoamerica, excluding only the arid northern and western regions and a few small pockets where independent states resisted the expanding empire.

The main objective of the triple alliance was to exact tribute from subject peoples. From nearby peoples the Mexica and their allies received food crops and manufactured items such as textiles, rabbit-fur blankets, embroidered clothes, jewelry, and obsidian knives. Tribute obligations were sometimes very oppressive for subject peoples. The annual tribute owed by the state of Tlaxcala on the Gulf coast, for example, included 9,600 cloaks, 1,600 women’s garments, 200 loads of cacao, and 16,000 rubber balls, among other items. Ruling elites entrusted some of these tribute items to officially recognized merchants, who took them to distant lands and exchanged them for local products. These included luxury items such as translucent jade, emerald

tortoise shells, jaguar skins, parrot feathers, eschells, and game animals. The tropical lowlands also supplied vanilla beans and cacao—the source of cocoa and chocolate—from which Mexica elites prepared tasty beverages.

Unlike imperial states in the eastern hemisphere, the Aztec empire had no elaborate bureaucracy or administration. The Mexica and their allies simply conquered their subjects and assessed tribute, leaving local governance and the collection of tribute in the hands of the conquered peoples. The allies did not even maintain military garrisons throughout their empire. Nor did they keep a permanent, standing army. They simply assembled forces as needed when they launched campaigns of expansion or mounted punitive expeditions against insubordinate subjects. Nevertheless, the Mexica in particular had a reputation for military prowess, and fear of reprisal kept most subject peoples in line.

At the high point of the Aztec empire in the early sixteenth century, tribute from 489 subject territories flowed into Tenochtitlan, which was an enormously wealthy city. The Mexica capital had a population of about two hundred thousand people, and three hundred thousand others lived in nearby towns and suburban areas. The principal market had separate sections for merchants dealing in gold, silver, slaves, henequen and cotton cloth, shoes, animal skins, turkeys, dogs, wild game, maize, beans, peppers, cacao, and fruits.

The Spanish soldier Bernal Díaz del Castillo marveled at the sight before him when he first laid eyes on Tenochtitlan:

And when we saw so many cities and villages built in the water and other great towns on dry land and that straight and level causeway going towards Mexico [Tenochtitlan], we were amazed . . . on account of the great towers and [temples] and buildings rising from the water, and all built of masonry. And some of our soldiers even asked whether the things that we saw were not a dream? It is not to be wondered at that I here write it down in this manner, for there is so much to think over that I do not know how to describe it, seeing things as we did that had never been heard of or seen before, not even dreamed about.

Mexica Society

More information survives about the Mexica and their subjects than about any other people of the pre-Columbian Americas. A few Mexica books survived the Spanish conquest of the Aztec empire, and they offer direct testimony about the Mexica way of life. Moreover, a great deal of information survives from lengthy interviews conducted by Spanish missionaries with priests, elders, and other leaders of the Mexica during the mid-sixteenth century. Their reports fill many thick volumes and shed considerable light on Mexica society.

Mexica society was rigidly hierarchical, with public honors and rewards going mostly to the military elite. The Mexica looked upon all males as potential warriors, and individuals of common birth could distinguish themselves on the battlefield and thereby improve their social standing. For the most part, however, the military elite came from the Mexica aristocracy. Men of noble birth received the most careful



Although the lakes of central Mexico have largely disappeared, a few chinampas survive, such as this one in Xochimilco near modern Mexico City.

Artisans and Merchants

together in communities, organized their own affairs, and allocated community property to individual families. Apart from cultivating plots assigned by their *calpulli*, Mexica commoners worked on lands awarded to aristocrats or prominent warriors and contributed labor services to public works projects involving the construction of palaces, temples, roads, and irrigation systems. Cultivators delivered periodic tribute payments to state agents, who distributed a portion of what they collected to the elite classes and stored the remainder in state granaries and warehouses. In addition to these cultivators of common birth, Mexica society included a large number of slaves, who usually worked as domestic servants. Most slaves were not foreigners, but Mexica. Families sometimes sold younger members into servitude out of financial distress, and other Mexica were forced into slavery because of criminal behavior.

Skilled artisans, particularly those who worked with gold, silver, cotton textiles, tropical bird feathers, and other items destined for consumption by the elite, enjoyed considerable prestige in Mexica society. Merchants specializing in long-distance trade occupied an important but somewhat more tenuous position in Mexica society. Merchants supplied the exotic products such as gems, animal skins, and tropical bird feathers consumed by the elites and provided political and military intelligence about the lands they visited. Yet they often fell under suspicion as greedy profiteers, and aristocratic warriors frequently extorted wealth and goods from merchants who lacked powerful patrons or protectors.

Mexica Religion

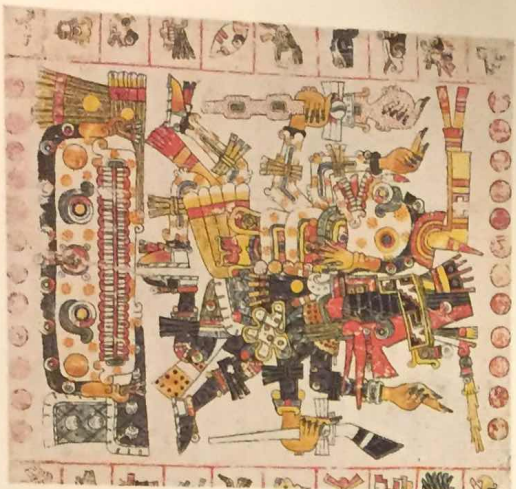
When they migrated to central Mexico, the Mexica already spoke the Nahuatl language, which had been the prevalent tongue in the region since the time of the Toltecs. The Mexica soon adopted other cultural and religious traditions, some of

which dated from the time of the Olmecs, shared by all the peoples of Mesoamerica.

Most Mesoamerican peoples played a ball game in formal courts, for example, and maintained a complicated calendar based on a solar year of 365 days and a ritual year of 260 days. The Mexica enthusiastically adopted the ball game, and they kept a sophisticated calendar, although it was not as elaborate as the Maya calendar.

The Mexica also absorbed the religious beliefs common to Mesoamerica. Two of their principal gods—Tezcatlipoca, “the Smoking Mirror,” and Quetzalcoatl, “the Feathered Serpent”—had figured in Mesoamerican pantheons at least since the time of Teotihuacan, although different

Mexica Gods



A Mexica manuscript known as the Codex Borgia depicts Quetzalcoatl (left) as the lord of life and Tezcatlipoca (right) as the god of death.



In this manuscript illustration an aide stretches a victim over a sacrificial altar while a priest opens his chest, removes the still-beating heart, and offers it to Huitzilopochtli. At the bottom of the structure, attendants remove the body of an earlier victim.

peoples knew them by various names. Tezcatlipoca was a powerful figure, the giver and taker of life and the patron deity of warriors, whereas Quetzalcoatl had a reputation for supporting arts, crafts, and agriculture.

Like their predecessors, the Mexica believed that their gods had set the world in motion through acts of individual sacrifice. By letting their blood flow, the gods had given the earth the moisture it needed to bear maize and other crops. To propitiate the gods and ensure the continuation of the world, the Mexica honored their deities through sacrificial bloodletting. Mexica priests regularly performed acts of self-sacrifice, piercing their earlobes or penises with cactus spines in honor of the primeval acts of their gods. The religious beliefs and bloodletting rituals clearly reflected the desire of the Mexica to keep their agricultural society going.

Mexica priests also presided over the sacrificial killing of human victims. From the time of the Olmecs, and possibly even earlier, Mesoamerican peoples had regarded the ritual sacrifice of human beings as essential to the world's survival. The Mexica, however, placed much more emphasis on human sacrifice than their predecessors had. To a large extent the Mexica enthusiasm for human sacrifice followed from their devotion to the god Huitzilopochtli. Mexica warriors took Huitzilopochtli as their patron deity in the early years of the fourteenth century as they subjected neighboring peoples to their rule. Military success persuaded them that the priests of Huitzilopochtli's favored the Mexica, and as military successes mounted, the priests of Huitzilopochtli's cult demanded sacrificial victims to keep the war god appeased.

Some of the victims were Mexica criminals, but others came as tribute from neighboring peoples or from the ranks of warriors captured on the battlefield during

Ritual Bloodletting

Huitzilopochtli

the many conflicts between the Mexica and their neighbors. In all cases the Mexica viewed human sacrifice not as a gruesome form of entertainment but, rather, as a ritual essential to the world's survival. They believed that the blood of sacrificial victims sustained the sun and secured a continuing supply of moisture for the earth, thus ensuring that human communities would be able to cultivate their crops and perpetuate their societies.

Peoples and Societies of the North

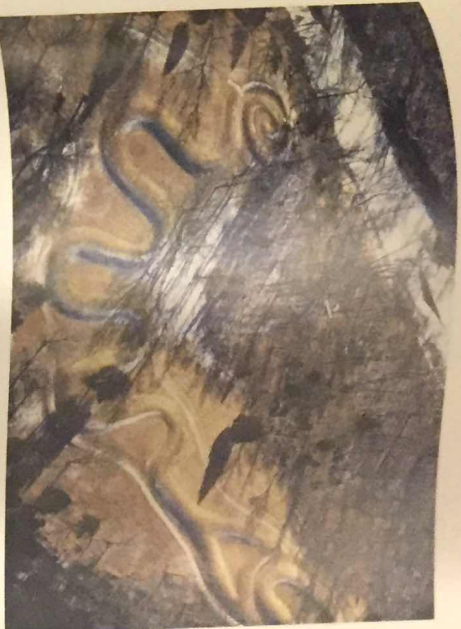
Beyond Mexico the peoples of North America developed a rich variety of political, social, and cultural traditions. Many North American peoples depended on hunting, fishing, and collecting edible plants. In the arctic and subarctic regions, for example, diets included sea mammals such as whale, seal, and walrus supplemented by land mammals such as moose and caribou. Peoples in coastal regions consumed fish, but in interior regions (the North American plains, for example), they hunted large animals such as bison and deer. Throughout the continent nuts, berries, roots, and grasses such as wild rice supplemented the meat provided by hunters and fishers. Like their counterparts elsewhere, hunting, fishing, and foraging peoples of North America built societies on a relatively small scale, since food resources in the wild would not support dense populations.

In several regions of North America, agricultural economies enabled peoples to maintain settled societies with large populations. In what is now the American southwest, for example, Pueblo and Navajo peoples tapped river waters to irrigate crops of maize, which constituted as much as 80 percent of their diets. They also cultivated beans, squashes, and sunflowers, and they supplemented their crops with wild plants and small game such as rabbit. The hot and dry environment periodically brought drought and famine. Nevertheless, by about 700 C.E. the Pueblo and the Navajo began to construct permanent stone and adobe buildings. Archaeologists have discovered about 125 sites where agricultural peoples built such communities.

Large-scale agricultural societies emerged also in the woodlands east of the Mississippi River. Woodlands peoples began to cultivate maize and beans during the early centuries C.E., and after about 800 these cultivated foods made up the bulk of their diets. They lived in settled communities, and they often surrounded their larger settlements with wooden palisades, which served as defensive walls. By 1000, for example, the Owaseco people had established a distinct society in what is now upstate New York, and by about 1400 the five Iroquois nations (Mohawk, Oneida, Onondaga, Cayuga, and Seneca) had emerged from Owaseco society. Women were in charge of Iroquois villages and longhouses, in which several related families lived together, and supervised cultivation of fields surrounding their settlements. Men took responsibility for affairs beyond the village—hunting, fishing, and war.

The most impressive structures of the woodlands were the enormous earthen mounds that dotted the countryside throughout the eastern half of North America. Woodlands peoples used those mounds sometimes as stages for ceremonies and rituals, often as platforms for dwellings, and occasionally as burial sites. Modern agriculture, road building, and real estate development have destroyed most of the mounds, but several surviving examples demonstrate that they sometimes reached gigantic proportions.

The largest surviving structure is a mound at Cahokia near East St. Louis, Illinois. More than 30 meters (100 feet) high, 300 meters (1,000 feet) long, and 200 meters (650 feet) wide, it was the third-largest structure in the western hemisphere before the arrival of Europeans. Only the temple of the sun in Teotihuacan and the temple of Quetzalcoatl in Chicholula were larger. When the Cahokia society was at its height, from



Originally constructed about 1000 C.E., the Great Serpent Mound sits atop a ridge in modern Ohio. The serpent's coiled tail is visible at the left, while its open mouth holds an egg on the right.

approximately 900 to 1250 C.E., more than one hundred smaller mounds stood within a few kilometers of the highest and most massive mound. Scholars have estimated that during the twelfth century, fifteen thousand to thirty-eight thousand people lived in the vicinity of the Cahokia mounds.

Trade

Because peoples north of Mexico had no writing, information about their societies comes almost exclusively from archaeological discoveries. Burial sites reveal that mound-building peoples recognized various social classes, since they bestowed grave goods of differing quality and quantities on their departed kin. Archaeologists have shown, too, that trade linked widely separated regions and peoples of North America. An elaborate network of rivers—notably the Mississippi, Missouri, Ohio, and Tennessee rivers, along with their many tributaries—facilitated travel and trade by canoe in the eastern half of North America. Throughout the eastern woodlands, archaeologists have turned up stones with sharp cutting edges from the Rocky Mountains, copper from the Great Lakes region, seashells from Florida, minerals from the upper reaches of the Mississippi River, and mica from the southern Appalachian mountains. Indeed, the community at Cahokia probably owed its size and prominence to its location at the hub of North American trade networks. Situated near the confluence of the Mississippi, Missouri, and Ohio rivers, Cahokia was most likely the center of trade and communication networks linking the eastern woodlands of North America with the lower Mississippi valley and lands bordering the Gulf of Mexico.

States and Empires in South America

South American peoples had no script and no tradition of writing before the arrival of Spanish invaders in the early sixteenth century. As a result, the experiences of early

Iroquois Peoples

Pueblo and Navajo Societies

Mound-Building Peoples

Cahokia

Iroquois (EAK-uh-kwoi)

Map 21.2 The Inca

empire, 1471–1532 C.E. The Incas built the largest empire in the pre-Columbian Americas. How were they able to maintain control over their extensive realm?



South American societies are much more difficult to recover than those of Mesoamerica, where writing had been in use since the fifth century B.C.E. Yet, from archaeological evidence and information recorded by Spanish conquerors, it is possible to reconstruct much of the historical experience of Andean South America, which had been the site of complex societies since the first millennium B.C.E. As in Mesoamerica, cities and secular government in South America began to overshadow ceremonial centers and priestly regimes during the centuries from 1000 to 1500 C.E. Toward the end of the period, like the Mexica in Mesoamerica, the Incas built a powerful state, extended their authority over a vast region, and established the largest empire South America had ever seen.

The Coming of the Incas

After the disappearance of the Chavin and Moche societies, a series of autonomous regional states organized public affairs in Andean South America. The states frequently clashed, but rarely did one of them gain a long-term advantage over the others. For the most part they controlled areas either in the mountainous highlands or in the valleys and coastal plains.

After the twelfth century, for example, the kingdom of Chucuito dominated the highlands region around Lake Titicaca, which straddles the border between modern Peru and Bolivia at about 4,000 meters (13,000 feet) of elevation. Chucuito depended on the cultivation of potatoes and the herding of llamas and alpacas—camel-like beasts that were the only large domesticated animals anywhere in the Americas before the sixteenth century. In elaborately terraced fields built with stone retaining walls, cultivators harvested potatoes of many colors, sizes, and tastes. Like maize in Mesoamerica, potatoes served as the staple of the highlanders' diet, which revolved around a potato-based stew enlivened by maize, tomatoes, green vegetables, peppers, chiles, and meat from llamas, alpacas, or tender, domesticated guinea pigs.

Apart from meat, llamas and alpacas provided the highlanders with wool, hides, and dung, widely used as fuel in a land with few trees. In exchange for potatoes and

modern textiles, the highlanders obtained maize and coca leaves from societies in lower valleys. They used maize to enhance their diet and to brew a beerlike beverage, and they chewed the coca leaves, which worked as a mild stimulant and enhanced stamina in the thin air of the high Andes. (When processed, coca leaves yield a much more powerful stimulant with addictive properties—cocaine.)

In the lowlands the powerful kingdom of Chimú (sometimes referred to as Chimu) emerged in the tenth century and expanded to dominate some 900 kilometers (560 miles) of the Peruvian coast for about a century before the arrival of the Incas in the mid-fifteenth century. Chimú governed a large and thriving society. Irrigation networks tapped the rivers and streams flowing from the Andes mountains, watered fields in the lowlands, and helped to generate abundant yields of maize and sweet potatoes. Judging from goods excavated at grave sites, Chimú society enjoyed considerable wealth and recognized clear distinctions between social classes.

Chimu's capital city, ChanChan, whose ruins lie close to the modern city of Trujillo, had a population that exceeded fifty thousand and may have approached one hundred thousand. ChanChan featured massive brick buildings, which indicated a capability for mobilizing large numbers of people and resources for public purposes. The city's geography reflected a well-defined social order: each block belonged to an individual clan that supervised the affairs of its members and coordinated their efforts with those of other clans.

For several centuries, regional states such as Chucuito and Chimú maintained order in Andean South America. Yet, within a period of about thirty years, these and other regional states fell under the domination of the dynamic and expansive society of the Incas. The word *Inca* originally was the title of the rulers of a small kingdom in the valley of Cuzco, but in modern usage the term refers more broadly to those who spoke the Incas' Quechua language, or even to all subjects of the Inca empire.

After a long period of migration in the highlands, the Incas settled in the region around Lake Titicaca about the mid-thirteenth century. At first they lived as one among many peoples inhabiting the region. About 1438, however, the Inca ruler Pachacuti (reigned 1438–1471) launched a series of military campaigns that vastly expanded the Incas' authority. Pachacuti ("Earthshaker") was a fierce warrior. According to Inca legends, he fought so furiously in one early battle that he inspired the stones in the field to stand up and combat his enemies. The campaigns of the Earthshaker were long and brutal. Pachacuti first extended Inca control over the southern and northern highlands and then turned his forces on the coastal kingdom of Chimú. Though well defended, Chimú had to submit to the Incas when Pachacuti gained control of the waters that supplied Chimú's irrigation system.

By the late fifteenth century, the Incas had built a huge empire stretching more than 4,000 kilometers (2,500 miles) from modern Quito to Santiago. It embraced almost all of modern Peru, most of Ecuador, much of Bolivia, and parts of Chile and Argentina as well. Only the tropical rain forests of the Amazon and other river valleys set a limit to Inca expansion to the east, and the Pacific Ocean defined its western boundary. With a population of about 11.5 million, the Inca empire easily ranked as the largest state ever built in South America.

The Incas ruled as a military and administrative elite. They led armies composed mostly of conquered peoples, and they staffed the bureaucracy that managed the empire's political affairs. But the Incas were not numerous enough to overwhelm their subjects. They routinely sought to encourage obedience among subject peoples as conquering peoples became restive or uncooperative, the Incas sent loyal subjects colonists, provided them with choice land and economic benefits, and established them

Chimu

The Inca Empire

Inca Administration

in garrisons to maintain order. When conquered peoples rebelled, Inca armies forced them to leave their homes and resettle in distant parts of the empire.

The vast Inca realm presented a serious administrative challenge to its rulers. The shaker who conquered the territories that made up the Inca empire. Toward the end of his reign, about 1463, Pachacuti entrusted military affairs to his son and settled in the highland village of Cuzco, where he designed a system of government to consolidate his conquests. He implemented taxes to support Inca rulers and administrators, and he organized a system of state-owned storehouses to stock agricultural supplies and craft products such as textiles. He also began construction on an extensive network of roads that enabled Inca military forces and administrators to travel quickly to all parts of the empire.

In the absence of any script or system of writing, Inca bureaucrats and administrators relied on a mnemonic aid known as *quipu* to keep track of their responsibilities. *Quipu* consisted of an array of small cords of various colors and lengths, all suspended from one large, thick cord. Experts tied a series of knots in the small cords, which sometimes numbered a hundred or more, to help them remember certain kinds of information. Most *quipu* recorded statistical information having to do with population, state property, taxes, and labor services that communities owed to the central government. Occasionally, though, *quipu* also helped experts to remember historical information having to do with the establishment of the Inca empire, the Inca rulers, and their deeds. Although much more unwieldy and less flexible than writing, *quipu* enabled Inca bureaucrats to keep track of information well enough to run an orderly empire.

Cuzco served as the administrative, religious, and ceremonial center of the Inca empire. When Pachacuti retired there, Cuzco was a modest village, but the conqueror soon transformed it into a magnificent capital that Incas considered “the navel of the universe.” At the center was a huge plaza filled with glistening white sand transported from Pacific beaches to the high Andean city. Surrounding the plaza were handsome buildings constructed of red stone cut so precisely by expert masons that no mortar was necessary to hold them together. The most important buildings sported gold facings, which threw off dazzling reflections when rays of the Andean sun fell on them.

Since Cuzco was primarily a capital and a ceremonial center, the city’s permanent population was sizable but not enormous—perhaps forty thousand—but some two hundred thousand Inca subjects lived in the immediate vicinity. Apart from high-ranking imperial administrators, the most prominent permanent residents of Cuzco proper included the Inca rulers and high nobility, the high priests of the various religious cults, and the hostages of conquered peoples who lived with their families under the watchful eyes of Inca guardians.

A magnificent and extensive road system enabled the central government at Cuzco to communicate with all parts of the far-flung Inca empire and to dispatch large military forces rapidly to distant trouble spots. Two roads linked the Inca realm from north to south—one passing through the mountains, the other running along the coast. Scholars have estimated the combined length of those trunk routes at 16,000 kilometers (almost 10,000 miles). The combined length of the entire network of all Inca roads, including lesser thoroughfares as well as the major trunk routes, may have amounted to 40,000 kilometers (almost 25,000 miles).

Inca roads were among the best ever constructed before modern times. During the early sixteenth century, Spanish conquerors marveled at the roads—paved with stone, shaded by trees, and wide enough to accommodate eight horsemen riding

present. A corps of official messengers carried messages across the empire, and the roads so that news and information could travel quickly between Cuzco and the most distant parts of the empire.

Within a few days. When the Inca rulers desired a meal of local fish, they dispatched runners from Cuzco to the coast, more than 320 kilometers (200 miles) away, and had their catch within two days. Like roads in empires in other parts of the world, the Inca’s roads favored their efforts at centralization. Their roads even facilitated the spread of the Quechua language and their religious cult focusing on the sun, both of which became established throughout their empire.

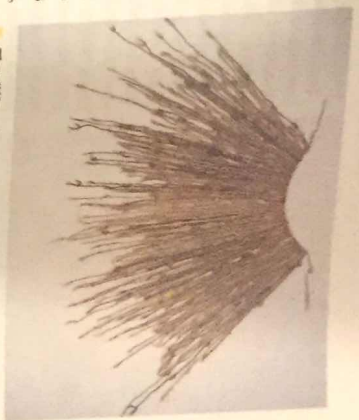
Inca Society and Religion

Despite those splendid roads, Inca society did not generate large classes of merchants and skilled artisans. On the local level the Incas and their subjects bartered surplus agricultural production and handcrafted goods among themselves. Long-distance trade, however, fell under the supervision of the central government. Administrators organized exchanges of agricultural products, textiles, pottery, jewelry, and craft goods, but the Inca state did not permit individuals to become independent merchants. In the absence of a market economy, there was no opportunity for a large class of professional, skilled artisans to emerge. Many individuals produced pottery, textiles, and tools for local consumption, and a few produced especially fine goods for the ruling, priestly, and aristocratic classes. But skilled crafts workers were much less prominent among the Incas than among the Mexica and the peoples of the eastern hemisphere.

The main classes in Inca society were the rulers, the aristocrats, the priests, and the peasant cultivators of common birth. The Incas considered their chief ruler a deity descended from the sun. In theory, this god-king owned all land, livestock, and property in the Inca realm, which he governed as an absolute and infallible ruler. Inca rulers retained their prestige even after death. Their descendants mummified the royal remains and regarded departed kings as intermediaries with the gods. Succeeding rulers often deliberated state policy in the presence of royal mummies so as to benefit from their counsel. Indeed, on the occasion of certain festivals, rulers brought out the mummified remains of their ancestors, dressed them in fine clothes, adorned them with gold and silver jewelry, honored them, and presented them with offerings of food and drink to maintain cordial relations with former rulers. Meanwhile, by way of tending to the needs of their living subjects, the Inca god-kings supervised a class of bureaucrats, mostly aristocrats, who allocated plots of land for commoners to cultivate on behalf of the state.

Ruling Elites

Trade



The different colors of quipu threads designated the different items recorded: population, animals, textiles, weapons, and perhaps even rulers and notable events of their reigns. People needed an advanced education to record and read information by quipu.

Aristocrats and Priests

Peasants



Descendants prepare a ritual meal for a mummified Inca ruler (depicted in the background).

Peasants supported themselves by working on lands allocated to individual families by their *ayllu*. Instead of paying taxes or tribute, peasants also worked on state lands administered by aristocrats. Much of the production from these state lands went to support the ruling, aristocratic, and priestly classes. The rest went into state storehouses for public relief in times of famine and for the support of widows, orphans, and others unable to cultivate land for themselves. Apart from agricultural work, peasants also owed compulsory labor services to the Inca state. Men provided the heavy labor required for the construction, maintenance, and repair of roads, buildings, and irrigation systems. Women delivered tribute in the form of textiles, pottery, and jewelry. With the aid of quipu, Inca bureaucrats kept track of the labor service and tribute owed by local communities.

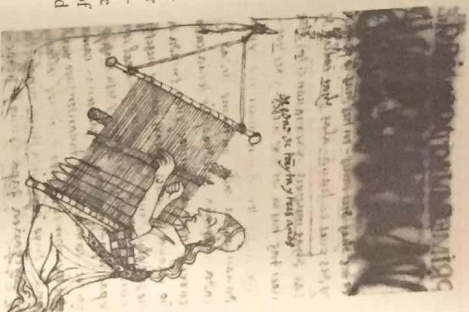
Members of the Inca ruling class venerated the sun as a god and as their major deity, whom they called Inti. They also recognized the moon, stars, planets, rain, and other natural forces as divine. Some Incas, including the energetic ruler Pachacuti, also showed special favor to the god Viracocha, creator of the world, humankind, and all else in the universe. The cult of the sun, however, outshone all the others. In Cuzco alone some four thousand priests, attendants, and virgin devotees served Inti, whose temple attracted pilgrims from all parts of the Inca empire. The first Spanish visitors to Cuzco reported that it took four hundred paces for them to walk around the temple complex, and they expressed amazement at its lavish decoration, including a golden sculpture of the sun encrusted with gems. Particularly astonishing to the visitors was an imitation garden in which grains of gold represented a field, which was planted with stalks of maize fabricated from gold and surrounded by twenty golden llamas with their attendants, also sculpted in gold. Priests of Inti and those

Like the ruling elites, Inca aristocrats and priests led privileged lives. Aristocrats consumed fine foods and dressed in embroidered clothes provided by common subjects. Aristocrats also had the right to wear large ear spools that distended their lobes so much that Spanish conquerors referred to them as “big ears.” Priests often came from royal and aristocratic families. They led celibate and ascetic lives, but they deeply influenced Inca society because of their education and their responsibility for overseeing religious rituals. The major temples supported hundreds of priests, along with attendants and virgin women devoted to divine service who prepared ceremonial meals and wove fine ritual garments for the priestly staff.

The cultivators were mostly peasants of common birth who lived in communities known as *ayllu*, similar to the Mexican *calpulli*, which were the basic units of rural society. Ranging in size from small villages to larger towns, *ayllus* consisted of several families who lived together, sharing land, tools, animals, crops, and work.

serving other cults honored their deities with sacrifices, which in Inca society usually took the form of agricultural produce or animals such as llamas and guinea pigs rather than humans.

In addition to sacrifices and ritual ceremonies, Inca religion had a strong moral dimension. The Incas taught a concept of sin as a violation of the established social or natural order, and they believed in a life beyond death, during which individuals would receive rewards or punishments based on the quality of their earthly lives. Sin, they believed, would bring divine disaster both for individuals and for their larger communities. The Incas also observed rituals of confession and penance by which priests absolved individuals of their sins and returned them to the good graces of the gods.



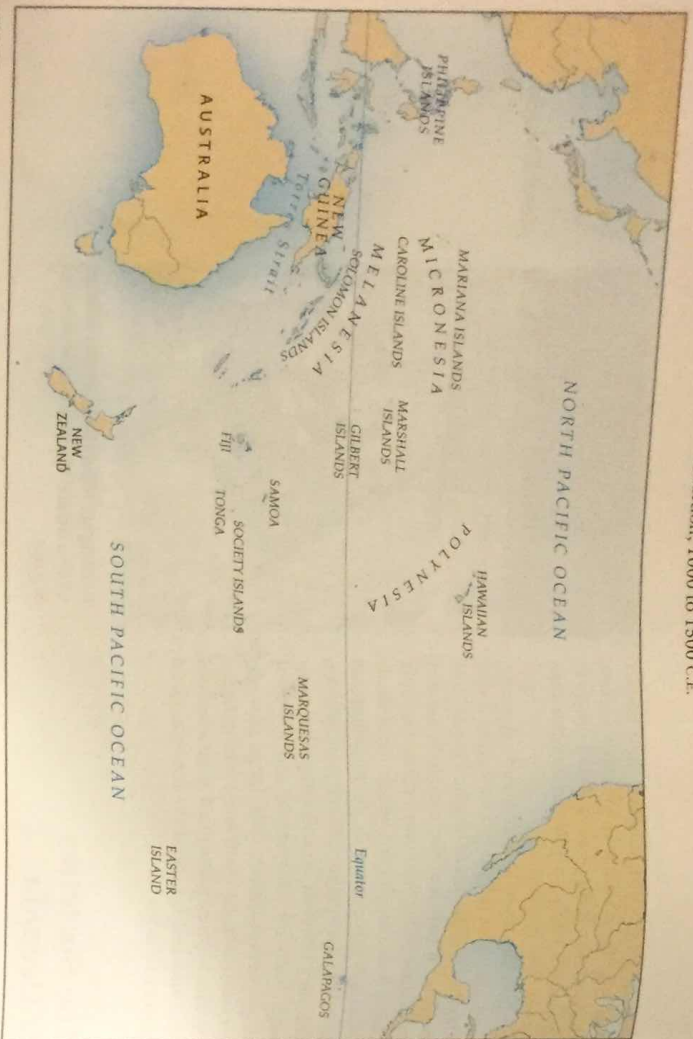
Fulfilling her tribute duty, an Inca woman weaves woolen fabric on a loom attached to a tree.

The Societies of Oceania

Inhabitants of Oceania did not interact with peoples of different societies as frequently or systematically as did their counterparts in the eastern hemisphere, but they built or maintained flourishing societies of their own. The aboriginal peoples of Australia and ventured over vast stretches of their continent and created networks of trade and exchange between hunting and gathering societies. Only in the far north, however, did they deal with peoples beyond Australia as they traded sporadically with merchants from New Guinea and the islands of southeast Asia. Meanwhile, throughout the Pacific Ocean, islanders built complex agricultural societies. By the time European mariners sailed into the Pacific Ocean in the sixteenth century, the larger island groups had sizable populations, hierarchical social orders, and hereditary chiefly rulers. In the central and western Pacific, mariners sailed regularly between island groups and established elaborate trade networks. Islanders living toward the eastern and western edges of the Pacific Ocean also had occasional dealings with American and Asian peoples, sometimes with significant consequences for the Pacific island societies.

The Nomadic Foragers of Australia

After the aboriginal peoples of Australia learned how to exploit the resources of the continent's varied regions, they led lives that in some ways changed little over the centuries. Unlike their neighbors to the north, they did not turn to agriculture. The inhabitants of New Guinea began to herd swine and cultivate root crops about 5000 B.C.E., and the inhabitants of islands in the Torres Strait (which separates Australia from New Guinea) took up gardening soon thereafter. Although aboriginal peoples of northern Australia must have known about foods cultivated in neighboring



Map 21.3 The societies of Oceania. Islands are much more numerous and much closer together in the western Pacific than in the eastern Pacific. In what ways did proximity to or distance from other islands influence the development of Pacific island societies?

Trade

lands, they maintained nomadic, foraging societies until European peoples migrated to Australia in large numbers during the nineteenth and twentieth centuries.

As a result of their mobile and nomadic way of life, aboriginal Australians frequently met and interacted with peoples of neighboring societies. Because Australia is a continent of enormous climate and ecological diversity, different peoples enjoyed access to food and other resources unknown to others they encountered during their seasonal migrations. Even though as nomads they did not accumulate large quantities of material goods, groups regularly exchanged surplus food and small items when they met.

That sort of small-scale exchange eventually enabled trade goods to spread throughout most of Australia. Individuals did not travel along all the trade routes. Instead, trade goods passed from one aboriginal community to another until they came to rest in regions often distant from their origins. Pearly oyster shells were among the most popular trade items. Archaeologists have turned up many of these shells fashioned into jewelry more than 1,600 kilometers (1,000 miles) from the waters where the oysters bred. From interior regions came stone axe heads, spears, boomerangs, furs, skins, and fibers.

Aboriginal peoples occasionally traded foodstuffs, but with the exception of some root vegetables, those items were generally too perishable for exchange. Peoples on the north coast also engaged in a limited amount of trade with mariners from New Guinea and the islands of southeast Asia. Australian spears and highly prized pearly shells went north in exchange for exotic items such as the striking flowers of the bird-of-paradise

plant, stone clubs, decorative tinkers—and occasionally iron axes, much coveted by aboriginal peoples who had no tradition of metallurgy.

In spite of seasonal migrations, frequent encounters with peoples from other aboriginal societies, and trade over long distances, the cultural traditions of Australian peoples mostly did not diffuse much beyond the regions inhabited by individual societies. Aboriginal peoples paid close attention to the prominent geographic features of the lands around them. Rocks, mountains, forests, mineral deposits, and bodies of water were crucial for their survival, and they related stories and myths about those and other geographic features. Often they conducted religious observances designed to ensure continuing supplies of animals, plant life, and water. Given the intense concern of aboriginal peoples with their immediate environments, their cultural and religious traditions focused on local matters and did not appeal to peoples from other regions.

The Development of Pacific Island Societies

By the early centuries C.E., human migrants had established agricultural societies in almost all the island groups of the Pacific Ocean. About the middle of the first millennium C.E., they ventured to the large islands of New Zealand—the last large, habitable region of the earth to receive members of the human species. After 1000 C.E. Polynesians inhabiting the larger Pacific islands grew especially numerous, and their surging population prompted remarkable social and political development.

In the central and western regions of the Pacific, where several clusters of islands are relatively close to one another, mariners linked island societies. Regional trade networks facilitated exchanges of useful goods such as axes and pottery, exotic items such as shells and decorative ornaments, and sometimes even foodstuffs such as yams. Regional trade within individual island groups served social and political as well as economic functions, since it helped ruling elites establish and maintain harmonious relations with one another. In some cases, trade crossed longer distances and linked different island groups. Inhabitants of the Tonga, Samoa, and Fiji islands traded mats and canoes, for example, and also intermarried, thus creating political and social relationships.

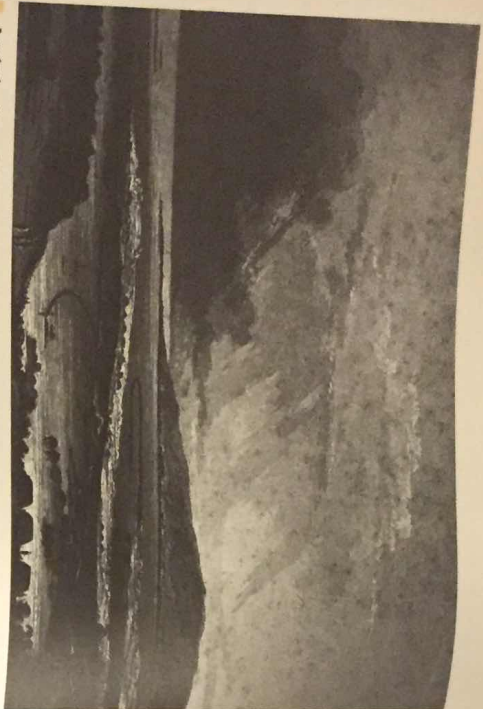
Elsewhere in Polynesia, vast stretches of deep blue water made it much more complicated to travel between different island groups and societies. As a result, regular trade networks did not emerge in the eastern Pacific Ocean. Nevertheless, mariners undertook lengthy voyages on an intermittent basis, sometimes with momentous results. After the original settlement of Easter Island about 300 C.E., for example, Polynesian mariners probably ventured to the western coast of South America, where they learned about the cultivation of sweet potatoes. Between about 400 and 700 C.E., mariners spread sweet potatoes throughout Polynesia and beyond to New Caledonia and Vanuatu. The new crop quickly became a prominent source of food in all the islands it reached. Sweet potatoes were especially important for the Maori population of New Zealand because the staple crops of the tropical Pacific did not flourish in the temperate climes of New Zealand. Thus long-distance voyages were responsible for the dissemination of sweet potatoes to remote islands situated thousands of kilometers from the nearest inhabited lands.

Another case of long-distance voyaging prompted social changes in the Hawaiian Islands. For centuries after the voyages that brought the original settlers to the islands in the early centuries C.E., there was little travel or communication between Hawaii and other Polynesian societies. During the twelfth and thirteenth centuries, however, a series of two-way voyages linked Hawaii with Tahiti and the Marquesas Islands. Memories of those voyages survive in oral traditions that relate the introduction into Hawaii of new chiefly and priestly lines from Tahiti. Evidence for the voyages comes

Cultural and Religious Traditions

Trade between Island Groups

Long-Distance Voyaging



A painting from 1825 shows several fishponds in active use near Honolulu in Hawaii.

Population Growth

also from Hawaiian adoption of fishhook styles from Tahiti and words from the Tahitian language.

While undertaking regular or intermittent voyages over long distances, islanders throughout the Pacific Ocean also built productive agricultural and fishing societies. They cultivated taro, yams, sweet potatoes, bananas, breadfruit, and coconuts, and they kept domesticated pigs and dogs. They also fed on abundant supplies of fish, which they caught by spear, net, and hook. After about the fourteenth century, as their population increased, the inhabitants of Hawai'i built ingenious fishponds that allowed small fry to swim from the ocean through narrow gates into rock-enclosed spaces but prevented larger fish from escaping. Fishponds enabled Hawaiians to harvest large quantities of mature fish with relative ease and thus contributed to the islanders' food supplies. The establishment of agricultural and fishing societies led to rapid population growth in all the larger Pacific island groups—Samoa, Tonga, the Society Islands (including Tahiti), and Hawai'i. In Hawai'i, the most heavily populated of the Polynesian island groups, the human population may have exceeded five hundred thousand when European mariners arrived in the late eighteenth century.

Dense populations sometimes led to environmental degradation and social strife on small islands with limited resources. Easter Island in particular was the site of dramatic problems arising from overpopulation. Polynesian migrants originally settled Easter Island in the early centuries C.E., and during the era from about 1100 to 1500, their descendants numbered about ten thousand. This population placed tremendous pressure on the island's resources and also competed fiercely among themselves for those resources. By 1500, having divided into hostile camps, islanders fought one another ferociously, engaging in brutal massacres of their enemies and the desecration of their bodies. As their society disintegrated, they sometimes resorted to cannibalism for lack of sufficient food.

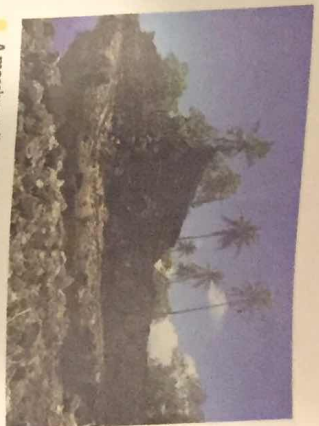
In other lands, dense populations promoted social organization on a scale never before seen in Oceania. On the island of Polynésie, for example, the San-Isle dynasty built a powerful state and organized the construction of a massive stone palace and administrative center at Nan Madol. Built mostly during the period from 1200 to 1600, the complex included ninety-three artificial islets protected by seawalls and breakwaters on three sides.

Indeed, beginning about the thirteenth century, expanding populations prompted residents of many Pacific islands to develop increasingly complex social and political structures. Especially on the larger islands, workers became more specialized: some concentrated on cultivating certain crops, and others devoted their efforts to fishing, producing axes, or constructing large, seagoing canoes. Distinct classes emerged as aristocratic and ruling elites decided the course of public affairs in their societies and extracted surplus agricultural production from those of common birth. The islands of Tonga, Tahiti, and Hawai'i had especially stratified societies with sharp distinctions between various classes of high chiefs, lesser chiefs, and commoners. Hawaiian society also recognized distinct classes of priests and skilled artisans, such as adze makers and canoe builders, ranking between the chiefly and common classes.

In addition to distinct social classes, island societies generated strong political leadership. Ruling chiefs generally oversaw public affairs in portions of an island, sometimes in an entire island, and occasionally in several islands situated close to one another. In Tonga and Hawai'i, high chiefs frequently launched campaigns to bring additional islands under their control and create large centralized states. Rarely, however, were these militant chiefs able to overcome geographic and logistic difficulties and realize their expansionist ambitions before the nineteenth century.

Nevertheless, high chiefs guided the affairs of complex societies throughout Polynesia. They allocated lands to families, mobilized labor for construction projects, and organized men into military forces. They commanded enormous respect within their societies. In Hawai'i, for example, the classes of high chiefs known as *ali'i nui* (inter-chiefs), married, ate the best fish and other foods that were *kapu* ("taboo") to commoners, and had the right to wear magnificent cloaks adorned with thousands of bright red and yellow bird feathers. Indeed, a *kapu* forbade commoners to approach or even cast a shadow on the *ali'i nui*.

High chiefs worked closely with priests, who served as intermediaries between human communities and the gods. Gods of war and agriculture were common throughout the Pacific islands, but individual islands and island groups recognized deities particular to their own regions and interests. The most distinctive architecture of early Pacific societies was the ceremonial precinct and temple structure known as *marae* (or *hiwira* in Hawai'i). *Marae* often had several terraced floors with a rock or coral wall designating the boundaries of the sacred space. In Tonga and Samoa, temples made of timber and thatched roofs served as places of worship, sacrifice, and communication between priests



A massive wall constructed of basalt rock protects a burial site at Nan Madol in Polynésie.

Nan Madol

Development of Social Classes

The Formation of Chiefly States

Polynesian Religion

Sources from the Past

Mo'ikeha's Migration from Tahiti to Hawai'i

A group of Polynesian oral traditions preserve memories of numerous two-way voyages between Tahiti and Hawai'i in the twelfth and thirteenth centuries. One of them has to do with Mo'ikeha, a high chief who left Tahiti because of domestic difficulties and migrated to Hawai'i, where he founded a new chiefly line. The legend recounts several voyages between Tahiti and Hawai'i. The following excerpts deal with Mo'ikeha's establishment as a chief in Hawai'i and the later arrival of his Tahitian son La'amakahiki, who is credited with the introduction of Tahitian religions and cultural traditions to Hawai'i.

It was dark by the time they arrived [at the Hawaiian island of Kaua'i], so they did not land, instead, mooring their canoe offshore. Early the next morning the people saw this double-hulled canoe floating offshore with the kapu sticks of a chief aboard. The canoe was brought ashore and the travellers got off. Meanwhile the locals were gathering in a crowd to go surf-fishing. . . . Among them were the two daughters of the ali'i nui [chief] of Kaua'i, Ho'opokamalanai and Hinanu.

Mo'ikeha and his companions saw the crowd and followed along to take part in the morning exercise. Mo'ikeha was a handsome man with dark reddish hair and a tall, commanding figure.

When Ho'opokamalanai and her sister saw Mo'ikeha, they immediately fell in love with him, and they decided to take him for their husband. Mo'ikeha in the meantime was also struck with the beauty and grace of the two sisters, and he, too, fell in love with them and decided to take one of them to be his wife. After enjoying the surf for a time, Ho'opokamalanai and her sister returned home and told their father about the new arrival and said: "We wish to take that young chief as a husband for one of us." The father approved.

Orders were issued that Mo'ikeha be brought to the house of the two ali'i women. Mo'ikeha and his company were sent for and brought in the presence of the king [the ali'i nui of Kaua'i]. The love of these young people being mutual, Ho'opokamalanai and Hinanu took Mo'ikeha to be their husband. Mo'ikeha became ali'i nui of Kaua'i after the death of his father-in-law. . . .

Mo'ikeha worked to make his two wives and five children happy, giving his undivided attention to the bringing up of his boys. He thought no more of Lu'ukia [his lover in Tahiti], but after a while, he began to feel a

yearning desire to see his son La'amakahiki, his child by his first wife Kapo. So he called his five sons together and said to them: "I'm thinking of sending one of you boys to bring your elder brother to Hawai'i." . . .

[After Mo'ikeha's son Kia sailed to Tahiti and found his elder half-brother] La'amakahiki immediately prepared to accompany his brother to Hawai'i, as Mo'ikeha wished. La'amakahiki took his priests and his god Lonofa on a boat, and set sail for Hawai'i with the men who had come with Kia. When they were approaching Kaua'i, La'amakahiki began beating his drum. Mo'ikeha heard his drum and ordered everything, the land as well as the house, to be made ready for the reception of the chief La'amakahiki. Upon the arrival of La'amakahiki and Kia, the high priest of Kaua'i, Polohiaman, took La'amakahiki and his god Lonofa on a boat ("Lonofa at the Chiefly Supremacy") to the heiau [temple]. It is said that La'amakahiki was the first person to bring a god (akua) to Hawai'i. . . .

[After returning to Tahiti, then sailing again to Hawai'i, La'amakahiki] set sail again, going up the Kona coast [of Hawai'i Island]. . . . It was on this visit that La'amakahiki introduced hula dancing, accompanied by the drum, to Hawai'i. . . .

La'amakahiki stayed a long time on Kaua'i teaching the people the art of dancing. From Kaua'i La'amakahiki visited all the other islands of this group and thus the drum dance (hula ka eke) spread to the other islands.

FOR FURTHER REFLECTION

How would you characterize the political, social, and cultural significance of two-way voyaging between Tahiti and Hawai'i?

SOURCE: Teuna Henry and others, *Immigrant Chiefs of Hawai'i*. Ed. by Dennis Kawaharada. Honolulu: Kalamaku Press, 1995, pp. 138–39, 144–46.

and the gods, whereas in eastern Polynesia religious ceremonies took place on platforms in open-air courtyards. The largest of these structures, the *marae* Mahanata on Tahiti, took the form of a steep pyramid about 15 meters (49 feet) high with a base measuring 81 by 22 meters (266 by 72 feet).

Pacific island societies did not enjoy access to the range of technologies developed by continental peoples until the sixteenth and later centuries. Yet Pacific islanders cleverly exploited their environments, established productive agricultural economies, built elaborate, well-organized societies, and reached out when possible to engage in trade with their neighbors. Their achievements testify anew to the human impulses toward densely populated communities and interaction with other societies.

The original inhabitants of the Americas and Oceania lived in societies that were considerably smaller than those of the eastern hemisphere. They did not possess the metallurgical technologies that enabled their counterparts to exploit the natural environment, nor did they possess the transportation technologies based on wheeled vehicles and domesticated animals that facilitated trade and communication among peoples of the eastern hemisphere. Nevertheless, long before they entered into sustained interaction with European and other peoples, they built complex societies and developed sophisticated cultural and religious traditions. Indigenous peoples established foraging, fishing, and agricultural societies throughout the Americas, and they fashioned tools from wood, stone, and bone that enabled them to produce enough food to support sizable communities. In Mesoamerica and Andean South America, they also built imperial states that organized public affairs on a large scale. The cultural and religious traditions of these imperial societies reflected their concern for agricultural production and the maintenance of complex social structures.

The original inhabitants of Australia and the Pacific islands built societies on a smaller scale than did the peoples of the Americas, but they too devised effective means of exploiting the natural environment and organizing flourishing communities. Australia was a continent of foraging nomadic peoples, whereas the Pacific islands supported densely populated agricultural societies. Although they had limited communication with peoples of the Americas or the eastern hemisphere, the peoples of Oceania traded and interacted regularly with their neighbors, and inhabitants of the Pacific islands sometimes undertook lengthy voyages to trade with distant island groups.