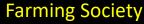






Foraging Society
Average forager <u>produced</u> ~5,000 kcal/cap/day



Following start of Holocene, different histories

More energies put into permanence in place, i.e., buildings, villages, towns, eventually cities

Less-egalitarian relations and institutions

States & Empires

Solar energy captured and processed through control of (intensifiable) domesticated plants and animals

Average farmer produced double-triple kcals/day/ capita, up to 30,000 in some non-industrial examples

3

What is a complex society in archaeology?

Pre-agricultural societies are sometimes called **small-scale societies**. Characterized by:

- low absolute populations and population density
- tendency to remain mobile through much of the year
- kinship is primary organizing force
- local social (status) differences emerge from various kinship roles, age-grades (junior-senior), variously recognized gender roles, and personal achievements (cannot be passed to kids)

Л

What is a complex society in archaeology?

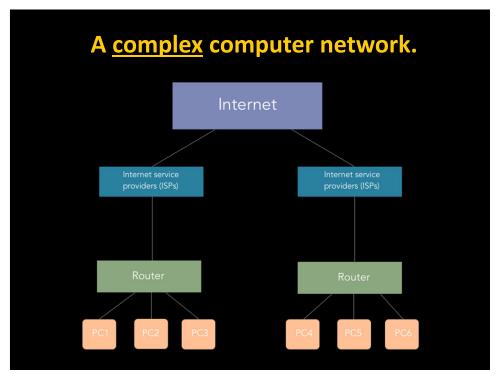
Complex societies: differentiation in social, political, and/or economic structure combined with organization that integrates diverse structural parts into a whole. Characterized by:

- higher populations and population densities
- permanent (sedentary) towns and cities
- kinship is still important, but groups and individuals can/do relate to one another through membership in different "civic" organizations and institutions (e.g., political, economic, religious, etc.), and through residence (i.e., State citizenship) [Latin civilis ("civil"), related to civis ("citizen") and civitas ("city")] beware the oft-loaded term, "civilization"
- social differences emerge from one's membership in a higher-status kin group, or by one's membership into an elite social class, specialist occupation, control of production and extraction of surpluses, etc.
- Not always permanent (never really, over time...)

5

What is a complex society in archaeology?

 In the simplest of terms, a "complex" society is one that has both more kinds of parts and a greater number of parts, that are somehow integrated.



What is a complex society in archaeology?

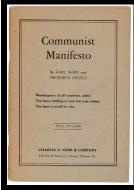
- In the simplest of terms, a "complex" society is one that has both more kinds of parts and a greater number of parts, that are integrated, increasingly permanent.
- This does not make them objectively better than small-scale societies! Using terms like "complex" and "small-scale" could lead to the misconception that a hierarchy of societal-types (or species) exists. It does not! In many ways, what we today think of as negative (slavery, inequality, racism, poverty, large-scale/organized violence--WAR) developed alongside some kinds of complex societies

A VERY BRIEF HISTORY OF ARCHAEOLOGISTS/ANTHROPOLOGISTS STUDYING SOCIETAL "COMPLEXITY"

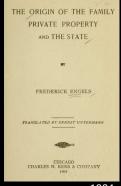
9

Lewis Henry Morgan (1818-1881) **Ethnologist** civilization **Cultural Evolution:** when new forms of social or barbarism sociopolitical organization appear (is not about sedentary agriculture migration) -- IS NOT **BIOLOGICAL EVOLUTION!** savager Morgan described three broad stages of cultural Morgan's broad, comparative, evolutionary development & development of Human Culture, not "peoples," hypothesized evolutionary not "races" (today, we don't use these terms, but these were the terms common at the time changes between them to categorize how societies acquired food and other technologies)

Early "ethnologist" Morgan was read by Karl Marx and Frederick Engels, and thus had an impact on world history. Even though Morgan was wrong about some things, the *revolutionary* idea for Marx and Engels was that society (like populations of living organisms) can and does change – i.e., we're not stuck with what we have at the moment, revolutionary change always occurs.







1848

1884

11

Vere Gordon Childe (1892-1957) -A Revolutionary Thinker - Archaeologist

- A materialist; concerned with workers' rights; a Marxist (socially/politically, on ideas of history)
- Studied archaeology at Oxford University
 - Studied Eastern Europe when most focused on the Classics and Western Europe
 - Realized the "big" cultural transitions mostly happened outside of western EuropeCalled transitions "revolutions"

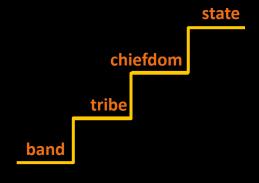
 - 1st Neolithic revolution = switch to farming
 - 2nd Urban revolution = switch to States, also cities
- Big deal: idea that prehistoric changes (e.g., farming) were on par with recent changes (e.g., industrial revolution), one could not have happ without effects by earlier, social, technological, productive changes



Elman Service (1915-1996)

Ethnologist/Cultural Anthropologist

 Defined <u>types</u> of societies (based on documented ethnographic evidence), which include more emphasis on political organization:





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(Political) States

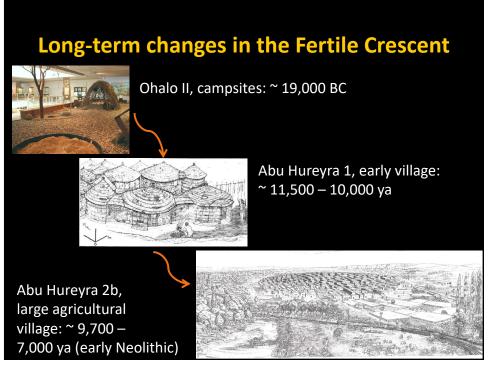
<u>State</u>: A governmental entity that persists by politically controlling a territory

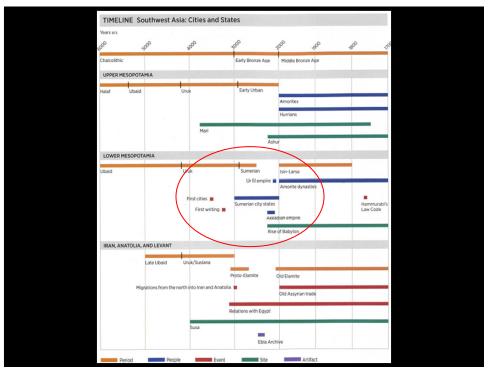
- State governments are internally specialized and a hierarchically organized decision-making apparatus
- Presence of at least 2 social strata/classes (simplified − elite ruling class vs. commoners) → stratified
- Ruling class supports professional classes: full-time craft producers, merchants & traders, "police" force and armies, religious priestly class, media, educated classes, etc.
- States had/have the power to levy and collect taxes, declare war, establish and enforce laws, etc., and they try to limit other "non-state" groups'/institutions' ability to do similarly i.e., States work to maintain a "monopoly of violence" and a "monopoly of law"
- States have been said to be the "killer of kinship" wherein state powers limit what "kinship" elsewhere always did to organize people and society (again, "civilization" is about citizenship and residence based on state-defined borders, law, punishment, and who can inherit land and wealth)
- Many states appear to have supported an official religion, and monarchs/rulers often were considered to be of supernatural origin themselves
- Development of the State closely intertwined with development of earliest cities/urbanism

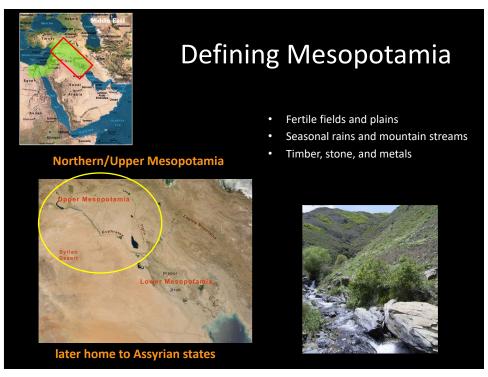


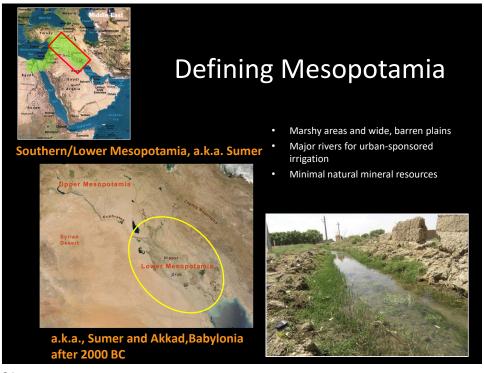
Tropic of Cancer Mesopotamia Tropic of Cancer Mesopotamia Indus Valley Equator N. Coast of Peru Tropic of Capricorn Andes











Earliest farming villages in Mesopotamia appear ca. 7000 BC in the north Communities were small: a few houses, each with several rooms Alia Ghazal Dead Sea The Gut Caspin Sea Casp



Early Mesopotamian Agricultural Villages

- By 6,500 BC, agriculture had spread to Sumer (southern Mesopotamia), where canal irrigation was necessary
- At first, villages were small, but they grew quickly throughout the <u>'Ubaid period (beginning ~5,500 BC)</u>.

Late 'Ubaid tell damaged in 2003 by US military activity



Economy and Mesopotamian State Formation

- During the <u>'Ubaid period</u>, we see the rise of temples as a key institution for the functioning of later Mesopotamian political systems
 - temples for pilgrimages, religious rites, royal patronage,
 AND economic functions



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Mesopotamian temples

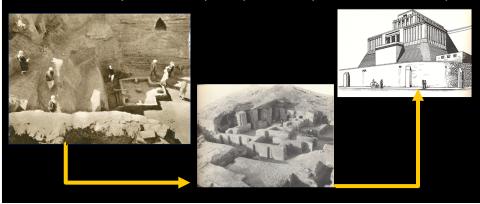
- The earliest temples in Mesopotamia-proper are at Eridu.
- During its early '<u>Ubaid</u> occupation, Eridu was mostly a residential town, but it had one nonresidential structure.





Mesopotamian temples

- At the deepest (earliest) levels, this mud brick building at Eridu was about 10x10 ft. and had a possible altar with burned offerings
- Over 2000 years, 17+ superimposed temples were built on top



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How did the temple work?

- Mesopotamian temples received goods through tribute (taxes?) and redistributed some of these goods to the populace during feasts
- From early on, temples were associated with storage and redistributive facilities



How did the temple work?

- Temples became managed by administrators (priests?) who coordinated labor projects (e.g., canal building), allocated irrigated water, and controlled the distribution of food and specialized crafts
- As the success of temples grew, so did the power of the administrators. Later, this power was manifested in bigger temples and ziggurats, which required incredible amounts of labor to construct.



Ziggurat – a rectangular stepped tower, often surmounted by a temple, common later in the Early Dynastic Period

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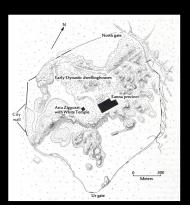
Temple, Society, and State

- By the <u>Uruk period</u> (beginning ~4000 BC), archaeologists have no trouble identifying socio-political hierarchies.
- At this time, we have major urbanizing centers (world's first cities) based on surplus agriculture and temple management:
 a 1st city Uruk (and a handful of others see text).
- By the <u>Early Dynastic period</u> (beginning ~2800-2350 BC), Uruk continues to expand, and other rival centers vie for autonomy and power.



Uruk (appears in Bible as Erech, modern name Warka, legend states it was built by Gilgamesh)

- In Uruk period, a small settlement was founded at Uruk
- By Early Dynastic period, it covered roughly 1.5 square miles, and was occupied by 20,000+ people

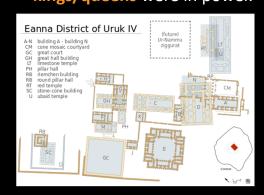


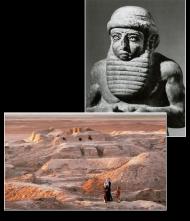


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Mesopotamian Hierarchy

 The high-quality architecture of the Eanna precinct and its proximity to the temples suggest that priestkings/queens were in power.





Mesopotamian Hierarchy

- The economic power of Mesopotamian royalty derived from taxation and trade, and exploitation of captives and slaves
- Seal stones: inscribed stones used by administrators to impress a symbol on wet pieces of clay or bitumen to keep track of goods

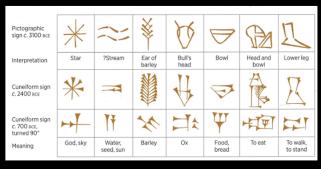


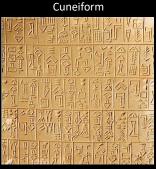


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Writing – eventual development of Cuneiform

- Scribes recorded economic transactions on clay tablets
- Symbols were mostly ideographs; some were pictographs
- Eventually, script was simplified further into cuneiform, combining earlier forms with symbols for sounds and concepts





Specialized Division of Labor

- Accountant Cartwright
- Herald
- Singer

- Architect
- Chariot
- Horse trainer Soldier

- Astrologer
- driver
- Mayor
- Stone carver

- Baker
- Confectioner Merchant
- Tailor

- Barber
- Cook
- Musician
- Tavern

- Basket maker*
 - Cup bearer
- Physician
- keeper Tax collector

- Boatman
- Diviner
- Potter
- Veterinarian

- Brewer
- Exorcist
- Priest
- Weaver

- Brick maker
- Farmer Fisherman
- Bodyguard Scholar

- Butcher

** No need to try to memorize these specific occupations!

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Early Dynastic Mesopotamia

- By the end of the Uruk period, there was substantial economic and political competition among multiple different city-states throughout Mesopotamia
- Material correlates: defensive features, material trappings of despotic rulers



Goldsmith Carpenter Shepherd

Early Dynastic UR (city)



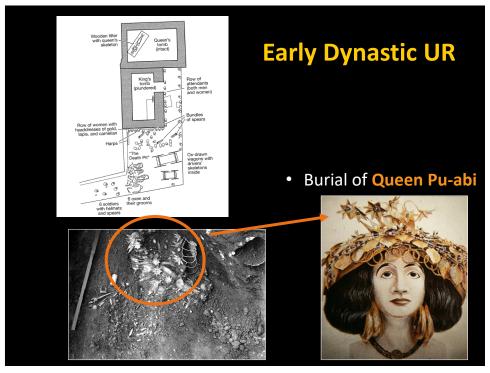
- Major late military, political, & economic rival of Uruk
- Bible states Ur as the birthplace of Abraham
- Renowned for its cemetery: 2500 burials excavated by Leonard Wooley in the 1920s
- Most graves had few or no grave goods; 20 extremely elaborated

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Early Dynastic UR







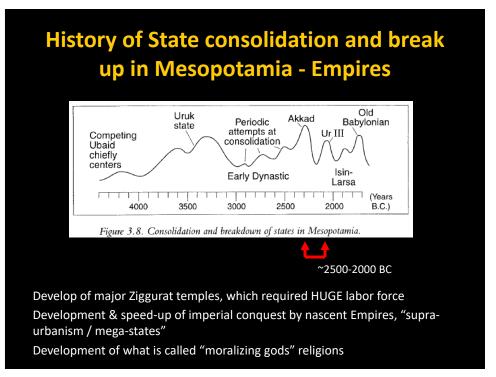
Early Dynastic Mesopotamia

- One important arena of specialization:
 military
- Warfare became ever more important, leading to the rise and fall of several successive polities
- Development of empire "macro-states"
- Empire: large states with heterogeneous ethnic & cultural composition; formed through conquest/coercion; to extract wealth (food, resources/human labor)

carving of Akkadian emperor, Naram-Sin, conquering communities of Zagros Mountains, Iran, ~4,250 ya









https://doi.org/10.1038/s41586-019-1043-4

Complex societies precede moralizing gods throughout world history

Harvey Whitehouse^{1,15}, Pieter François^{1,2,15}, Patrick E. Savage^{1,3,15}, Thomas E. Currie⁴, Kevin C. Feeney⁵, Enrico Cioni⁶, Rosalind Purcell⁶, Robert M. Ross^{1,7,8}, Jennifer Larson⁹, John Baines¹⁰, Barend ter Haar¹¹, Alan Covey¹² & Peter Turchin^{13,14}



"Moralizing gods" = deities who have a moral code, and "punish" those who break codes or make direct affronts to the gods

Examples: "moralizing high gods" such as the Abrahamic God; "broad supernatural punishment" concepts such as karma in Buddhism

"Moralizing gods" religions follow origins of complexity, develop near start of Empires with large populations containing multiple ethnicities

Moralizing gods help sustain and expand multi-ethnic, multi-cultural empires (cosmopolitan society)

Shamash (by 4,200 BC), ancient Mesopotamian god of the sun, justice, morality, and truth. Seen here sitting on a throne, judging other gods and kings.

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Table 9.1 Chronological table of selected periods in Mesopotamia (Calibrated dates of prehistoric periods are taken from Hours, Aurenche, Cauvin, Cauvin, Copeland, and Sanlaville 1994; Evin 1995; Porada, Hansen, Dunham, and Babcock 1992)

Periods	Approximate years BC
Early Holocene and Neolithic	10,000-6,000
Hassuna	7,100-6,600
Samarra	7,000-6,300
Halaf	6,400–5,500
Ubaid	6,500-4,000
Uruk	4,000-3,100
Early Dynastic	2,800-2,350
Old Akkadian/Akkade	2,350-2,200
Ur III	2,100-2,000
Old Babylonian	2,000–1,600
Old Assyrian	1,950-1,750
Middle Babylonian/Kassite	1,600–1,150
Middle Assyrian	1,400-1,000
Neo-Babylonian	1,000-539
Neo-Assyrian	1,000-610
Late Babylonian	
Achaemenid Persian	539-333
Hellenistic/Seleucid	333-190
Parthian and Sasanian dynasties	190 BC–AD 642
Islamic conquest	AD 642