HISTORY OF ARCHITECTURE I ARC 2313 - SPRING 2022

LECTURE-14 23 FEBRUARY 2022

For Friday, 25 February

Ingersoll: 408-422

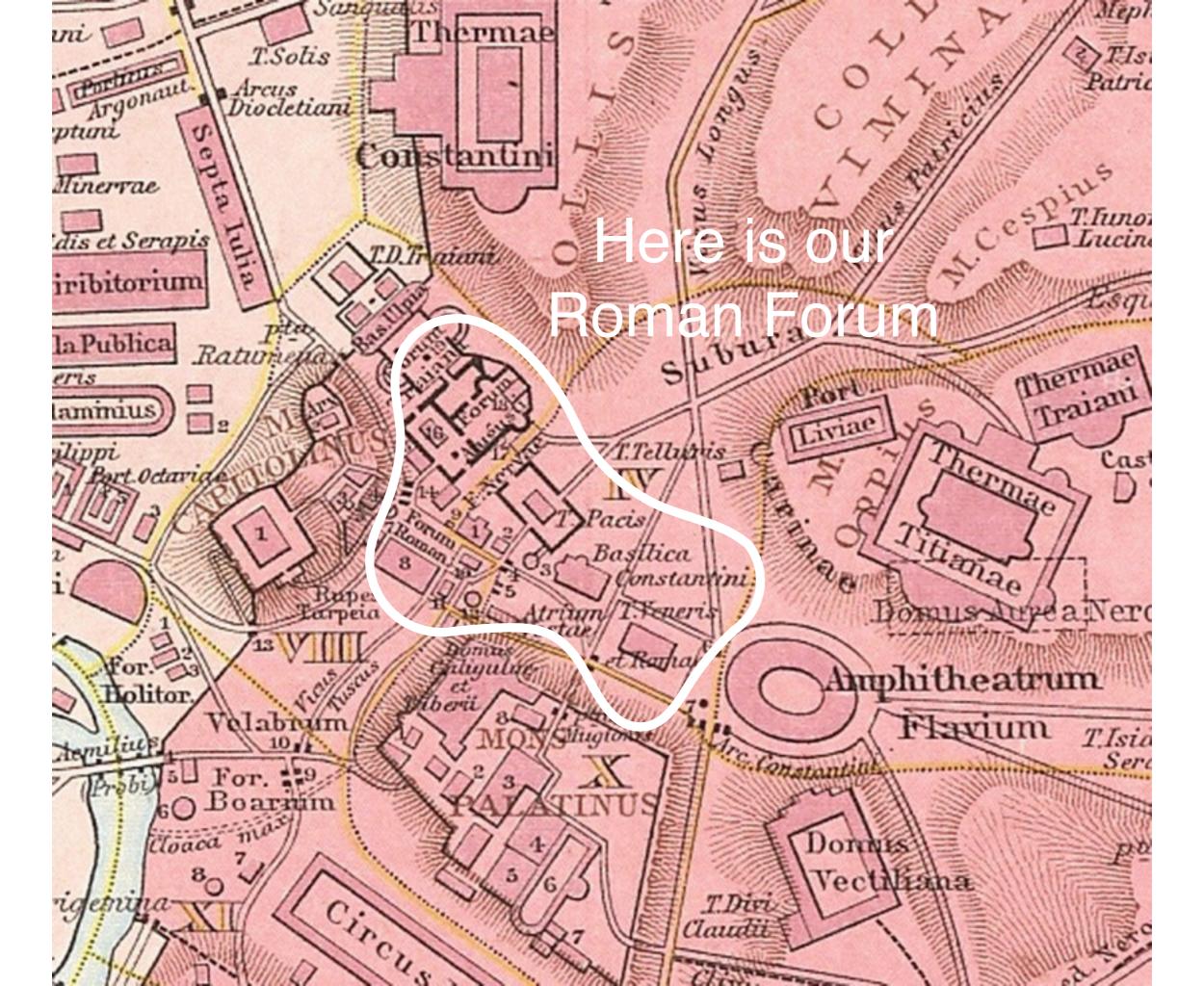
~ FIRST ~

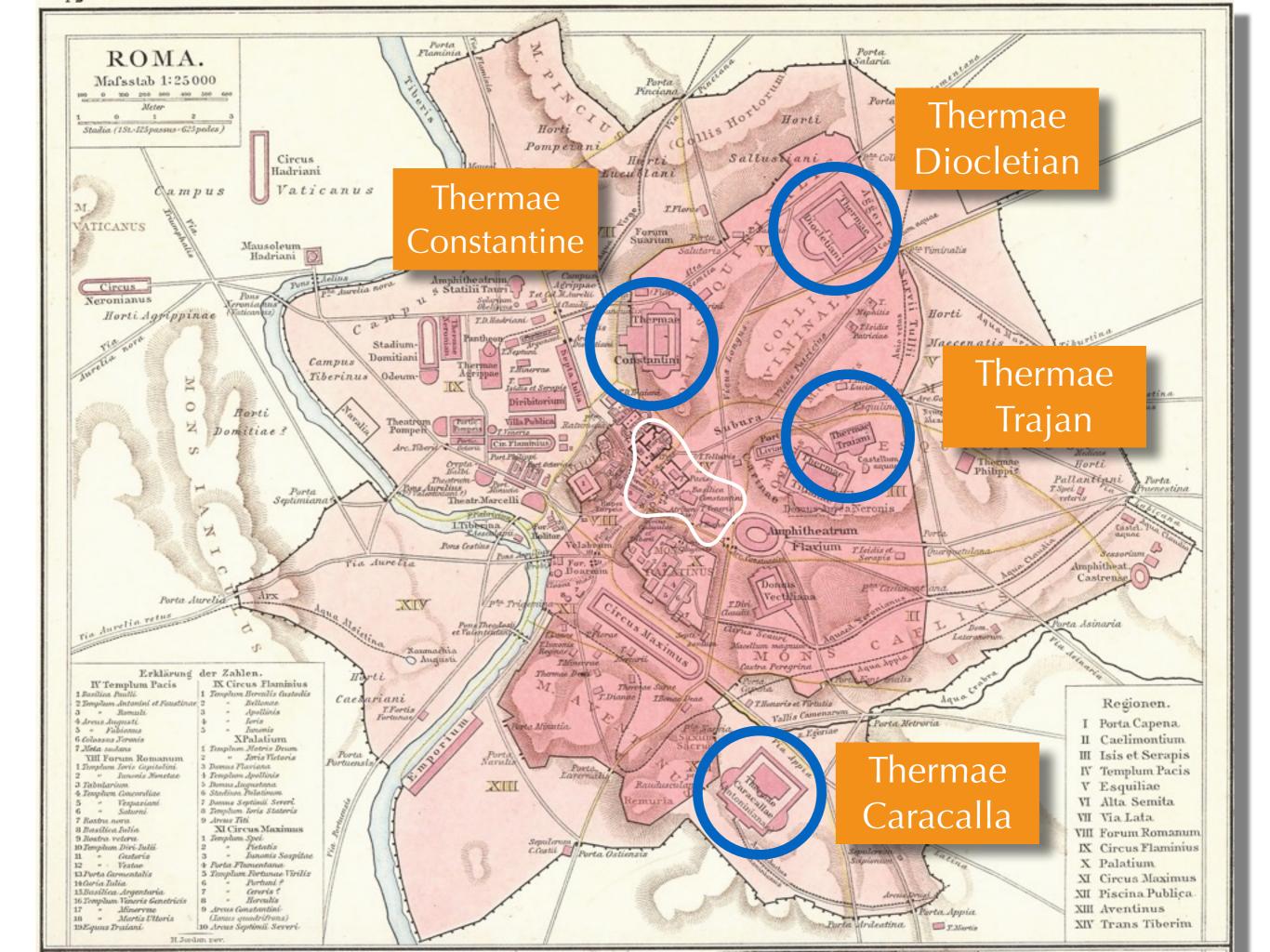
Before we proceed to **Mesoamerica** let's finish up with **Ancient Rome**

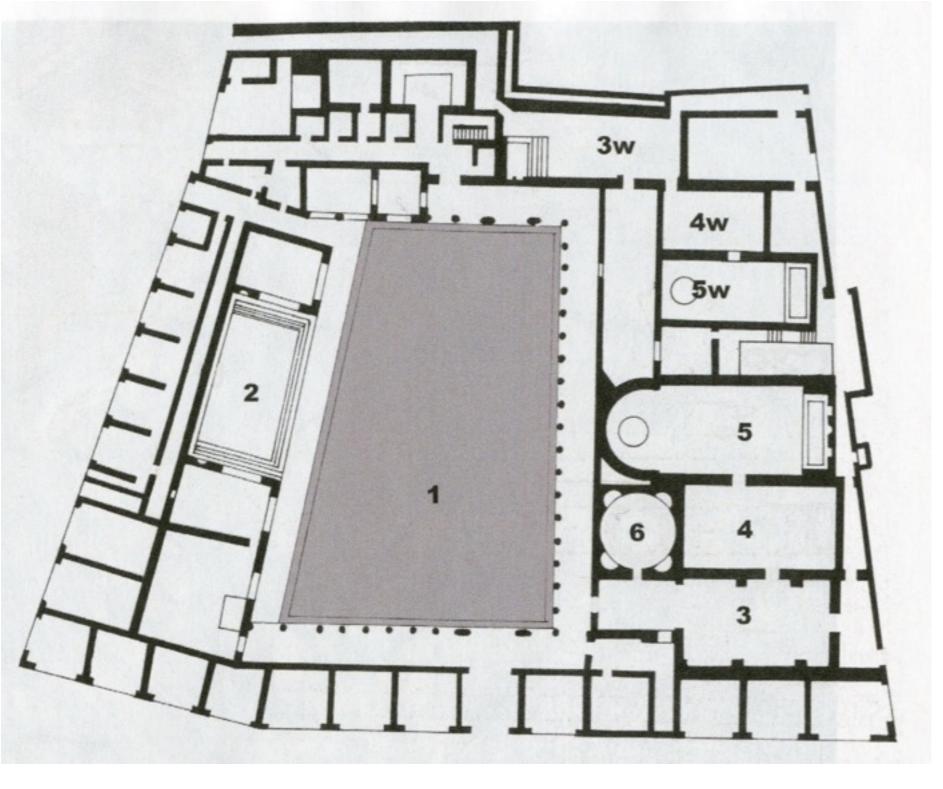
(I think on 18 February we lost ten minutes and I didn't get to the Roman Baths—the slides will be found in Lecture-12)

The *baths* or *thermae* of ancient Rome consisted of these functions:

palaestra (wrestling)
natatorium (swimming pool)
caldarium (hot water)
tepidarium (tepid water)
frigidarium (frigid water)

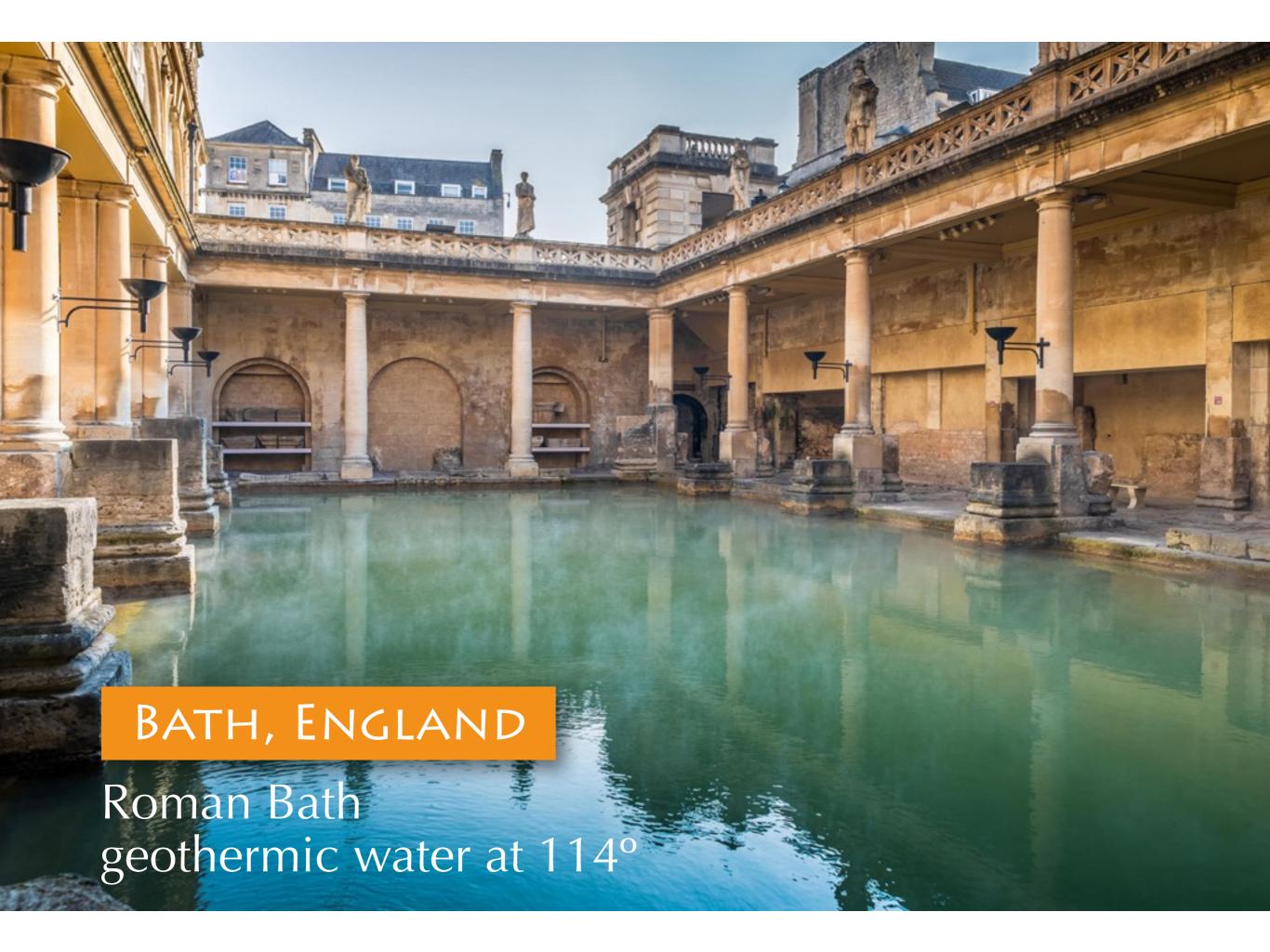


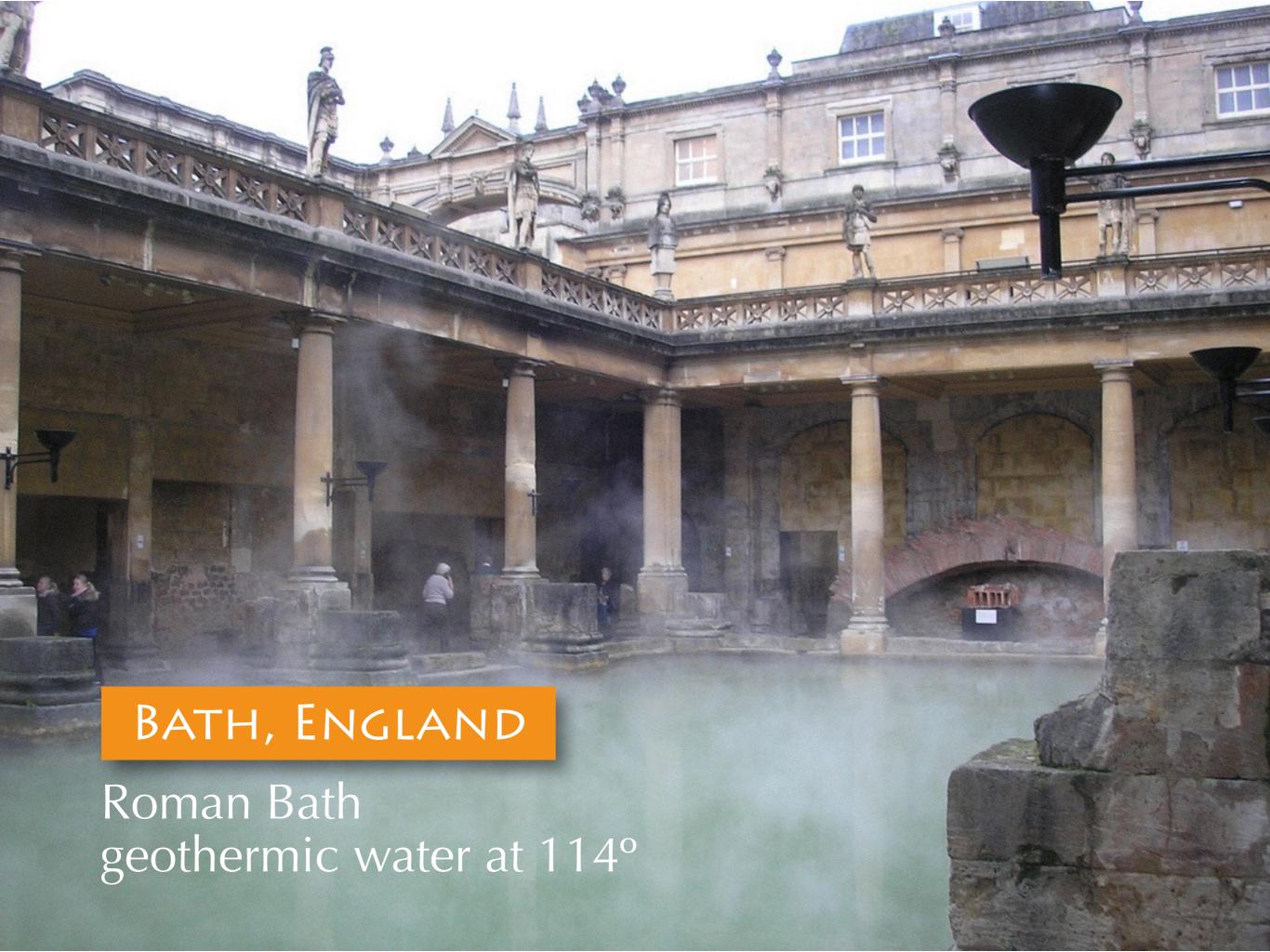


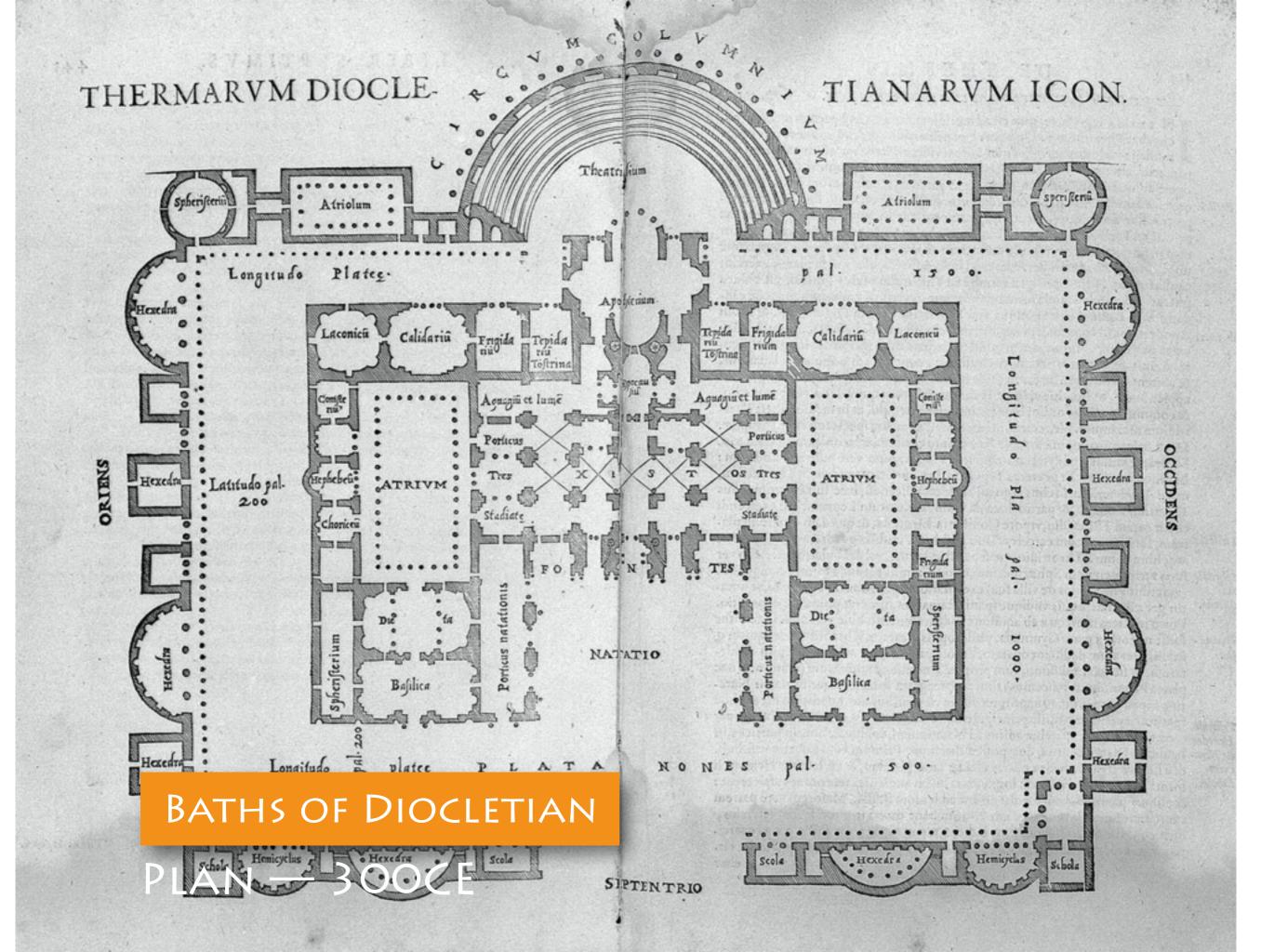


- 1) Palaestra
- 2) Natatorium
- 3) Men's area
- 4) Tepidarium
- 5) Caldarium
- 6) Frigidarium
- w) Women's areas

STABIAN BATHS OF POMPEI







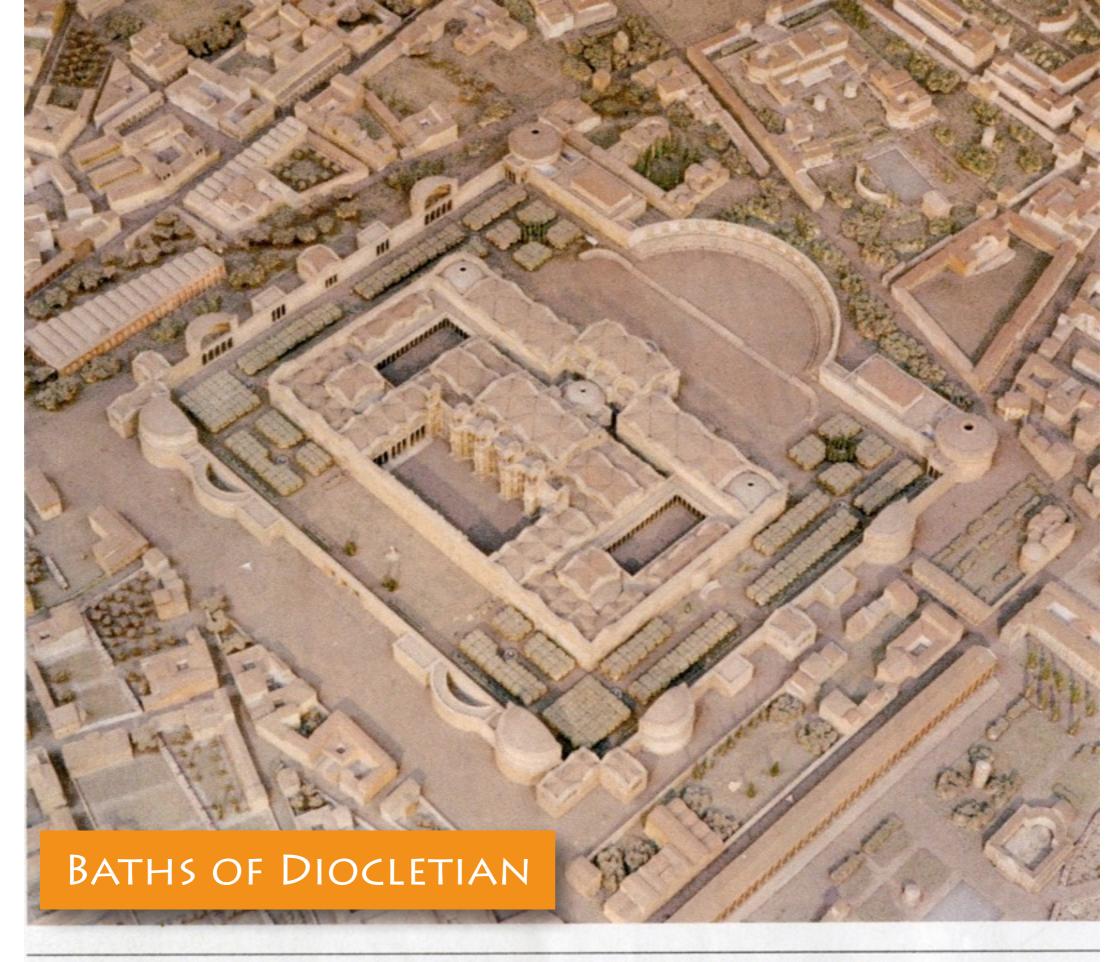


Figure 5.1-17 Rome. Model of the Baths of Diocletian, late third century CE.

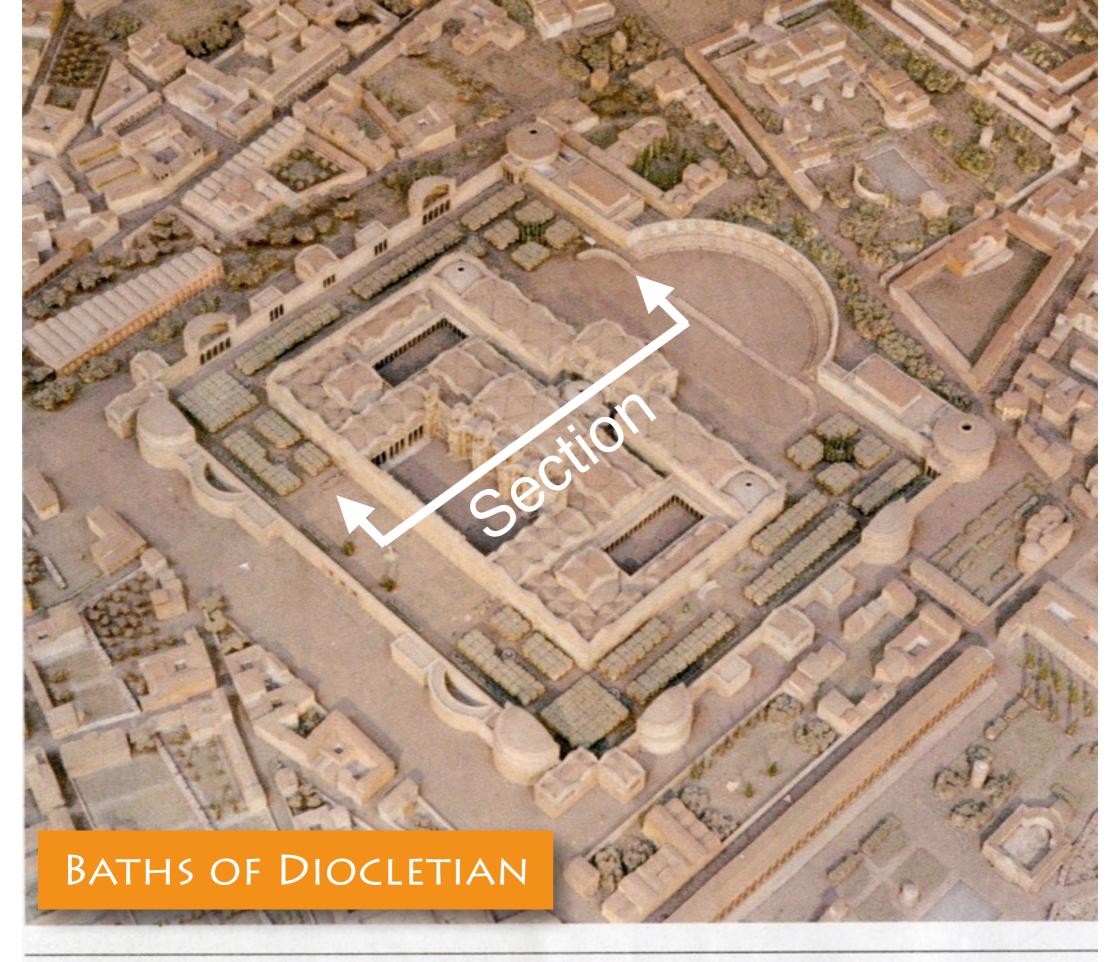
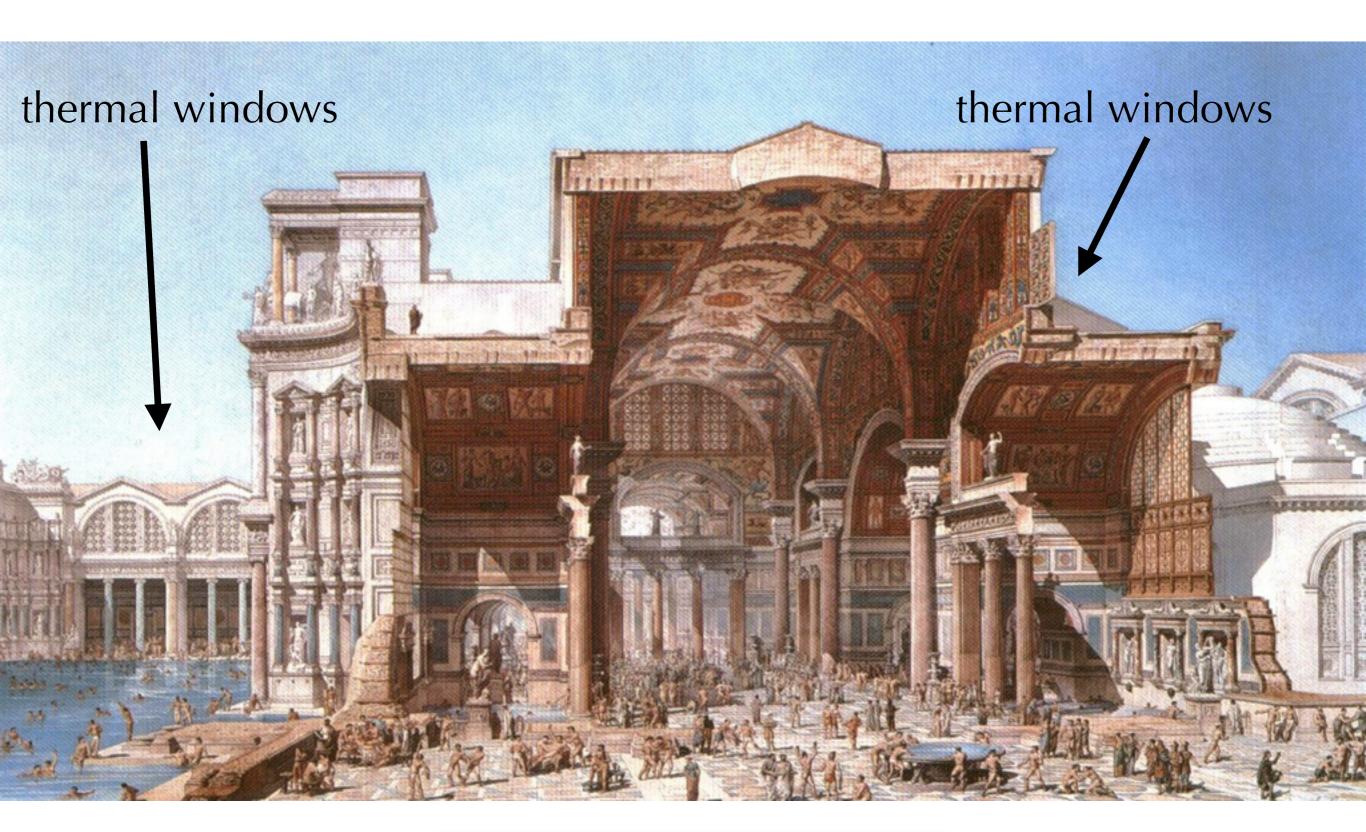
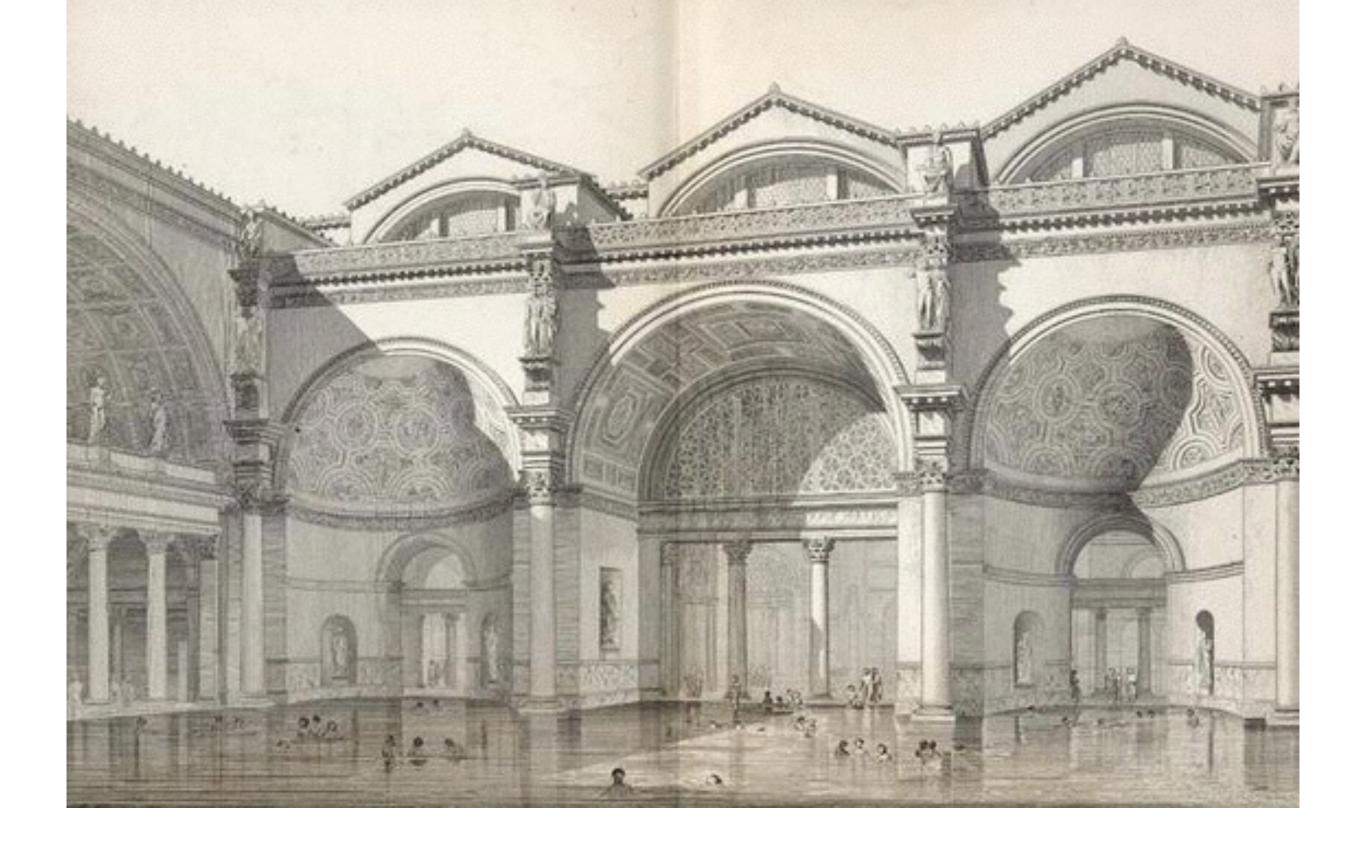


Figure 5.1-17 Rome. Model of the Baths of Diocletian, late third century CE.



BATHS OF DIOCLETIAN

SECTION — 300CE



BATHS OF CARACALLA

THERMAL WINDOW

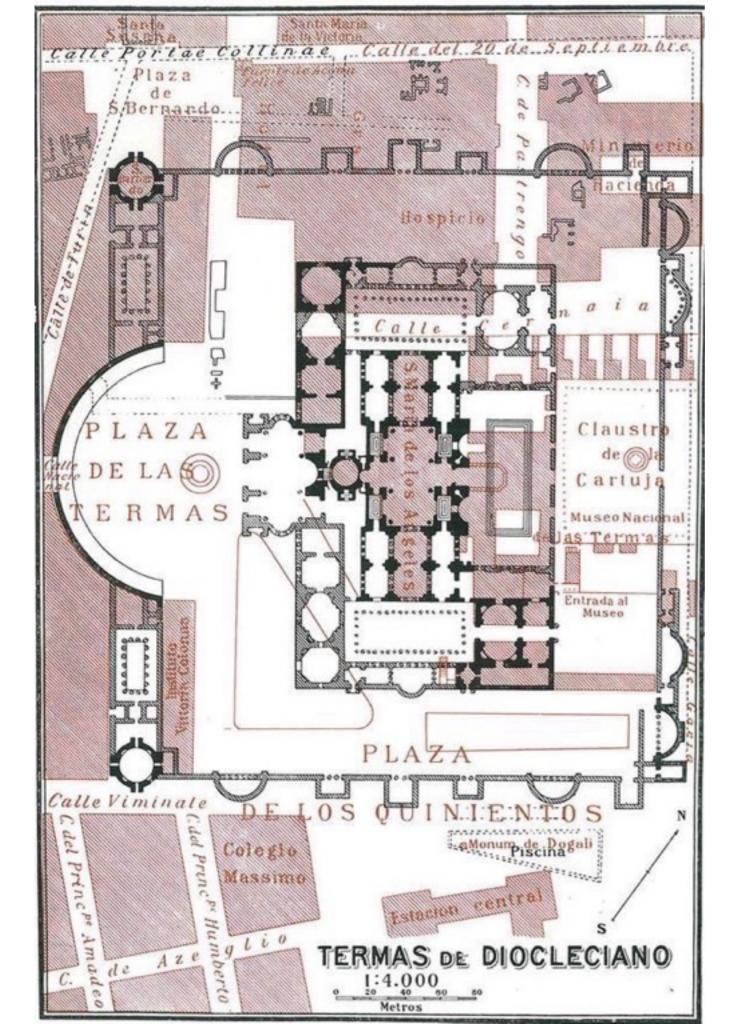




Penn Station New York (1911)



Jacksonville Train Station (1917)



Thermae of Diocletian

Turned into a church in the Renaissance c 1564

Arch: Michelangelo

St. Mary of the Angels & Martyrs

(Santa Maria degli Angeli e dei Martiri)

Ancient Central America Pyramids & Sacrifice

Mesoamerica

We go out of temporal sequence today as we travel to Mesoamerica in Space-Time

OLMEC CULTURE

A mysterious mother culture in mesoamerica that worshipped a panoply of gods such as the Feathered Serpent, Maize God, Water God.

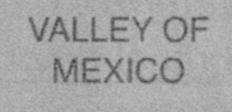
Earliest complex civilization in mesoamerica.

Had an awareness of the cosmos, sky realm, underworld. Were good artists, as seen especially with the colossal heads carved in stone

Not much is known about the **Olmec** culture and they died off about **900 BCE** leaving no written record.

First principal city referred to by archeaologists as **San Lorenzo**.

900-400 BCE power shifted to La Venta.



Teotihuacan

Mexico City *

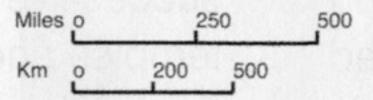
OLMEC

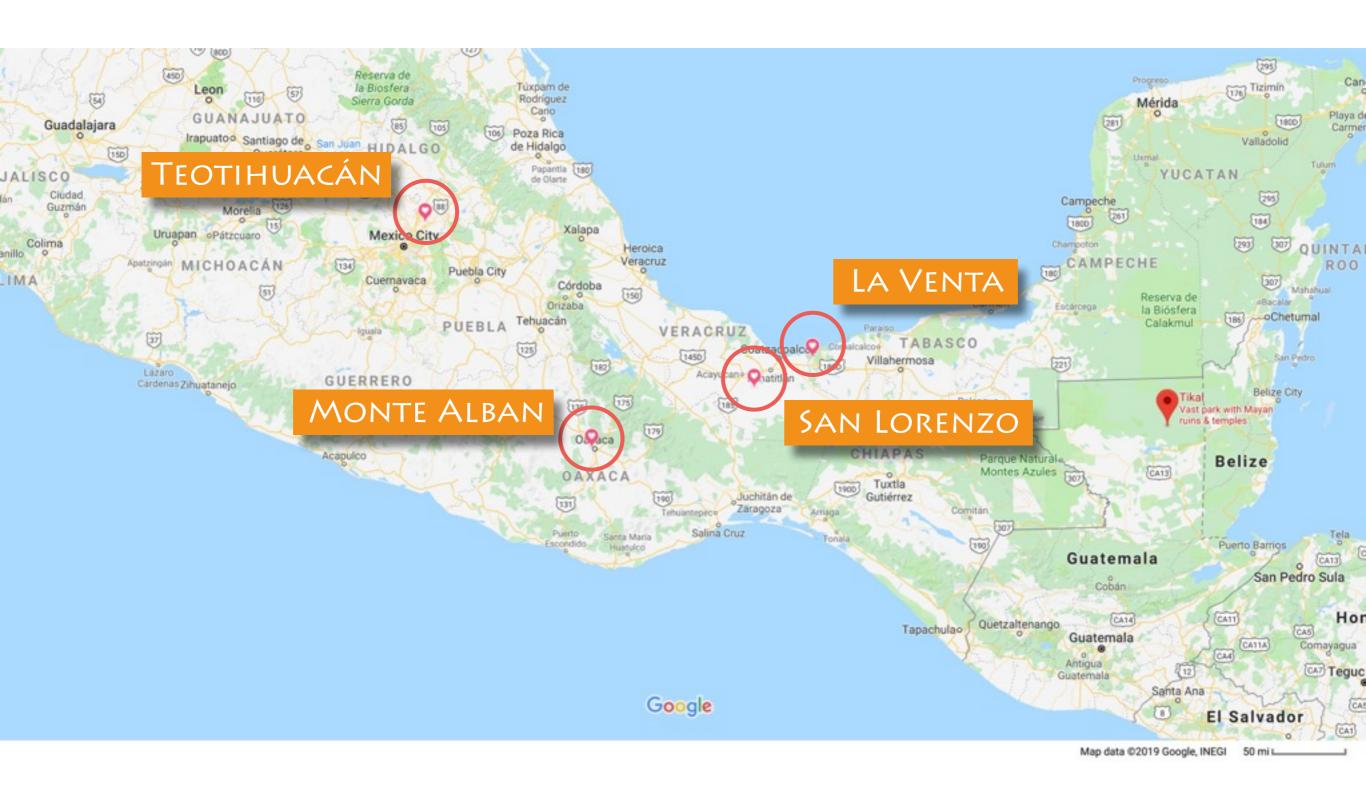
OÀXACA • Monte Alban

YUCATAN

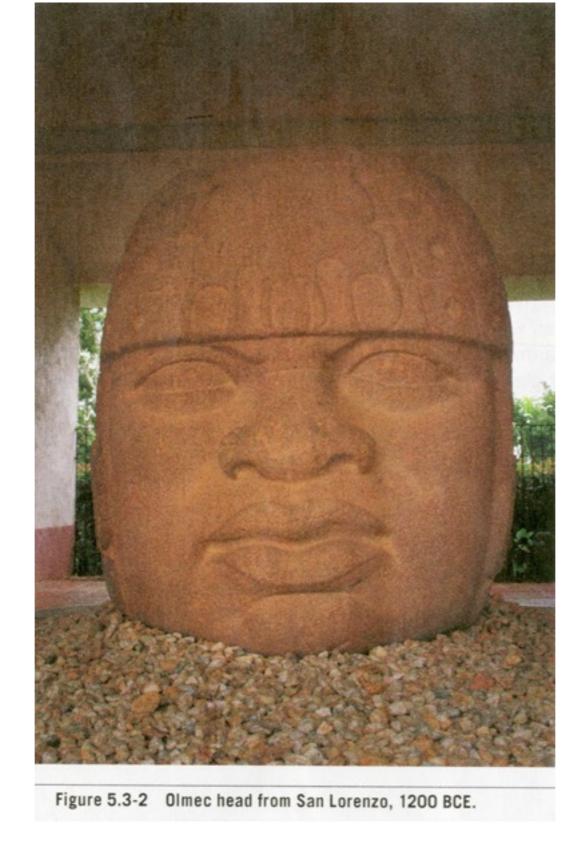
La Venta PETÉN

• Tikal





For the Olmec it was San Lorenzo and then La Venta



San Lorenzo dates back to 1500 BCE Steep decline about 900 BCE







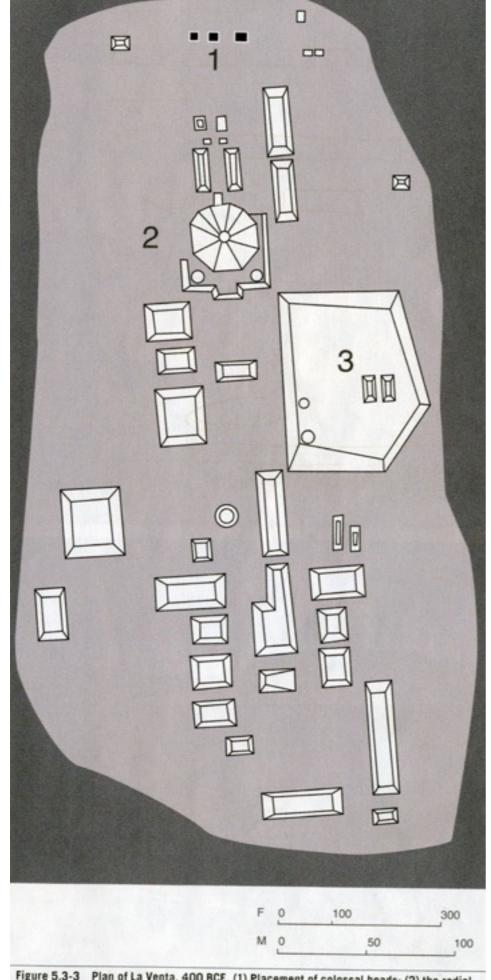


Figure 5.3-3 Plan of La Venta, 400 BCE. (1) Placement of colossal heads; (2) the radial pyramid; (3) terrace with the ball court.

La Venta replaced San Lorenzo as the capital of the Olmec

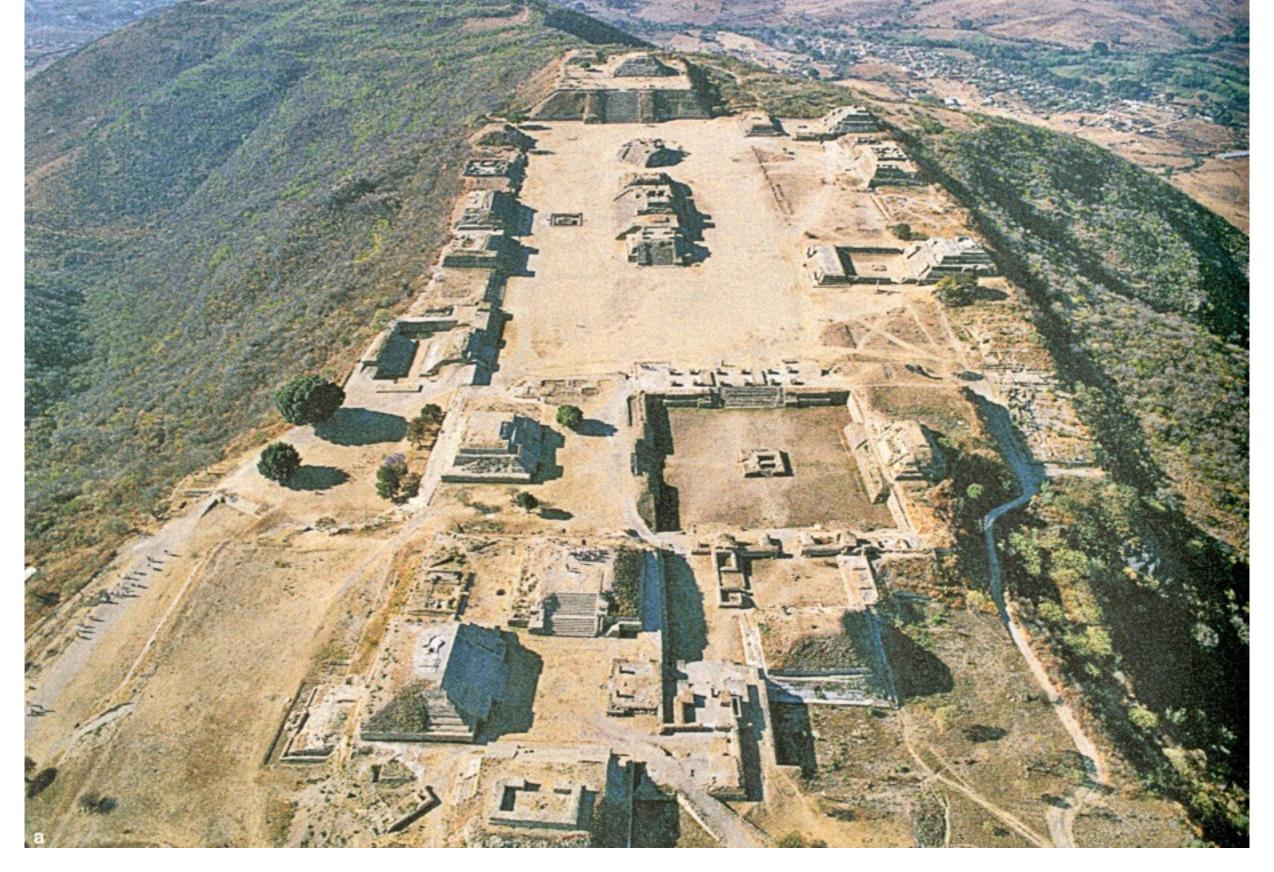
Radial Pyramid, ball court

900 - 400 BCE

This culture declined and disappeared by 400 BCE

ZAPOTEC CULTURE

Zapotec lasted until about 1521 CE in several phases with several capital cities



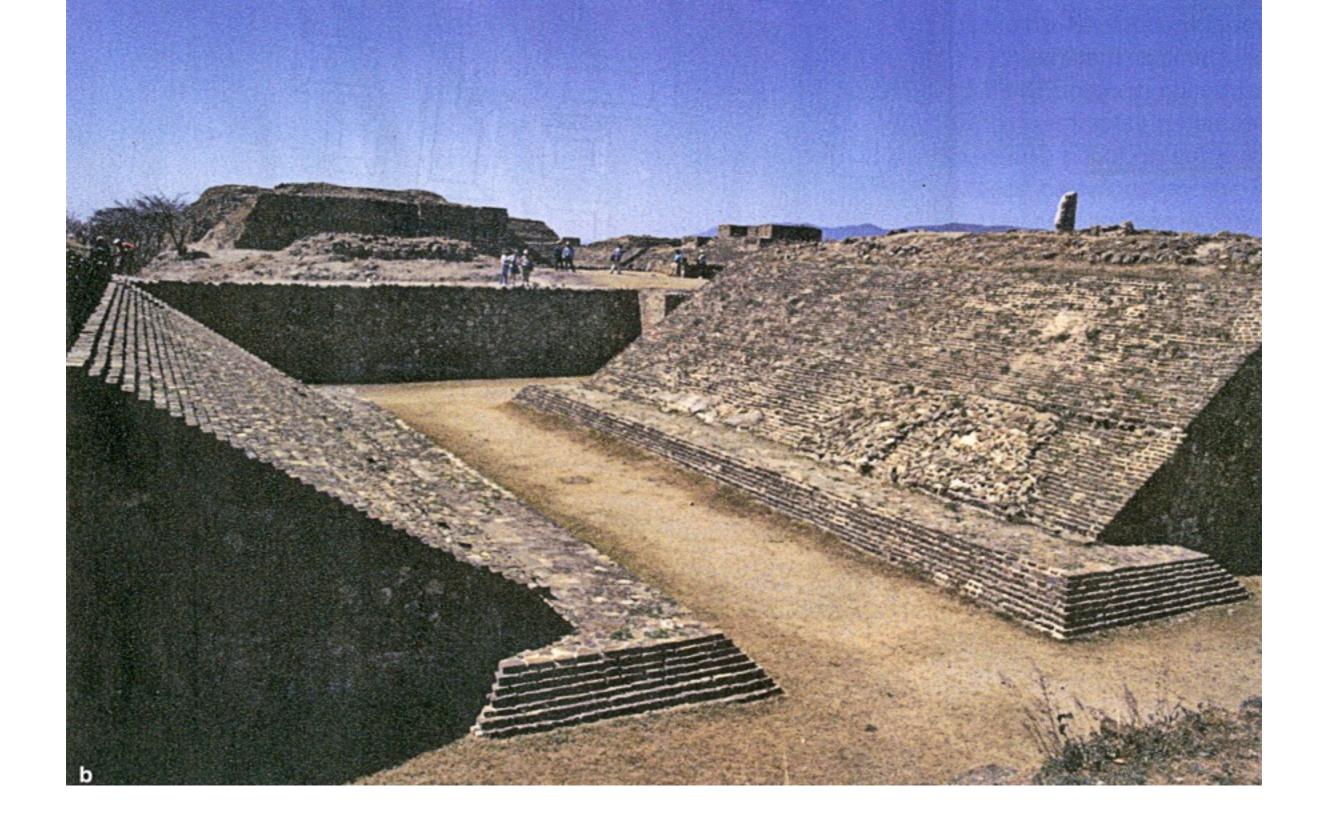
Monte Albán (capital city 700 BCE -700 CE)



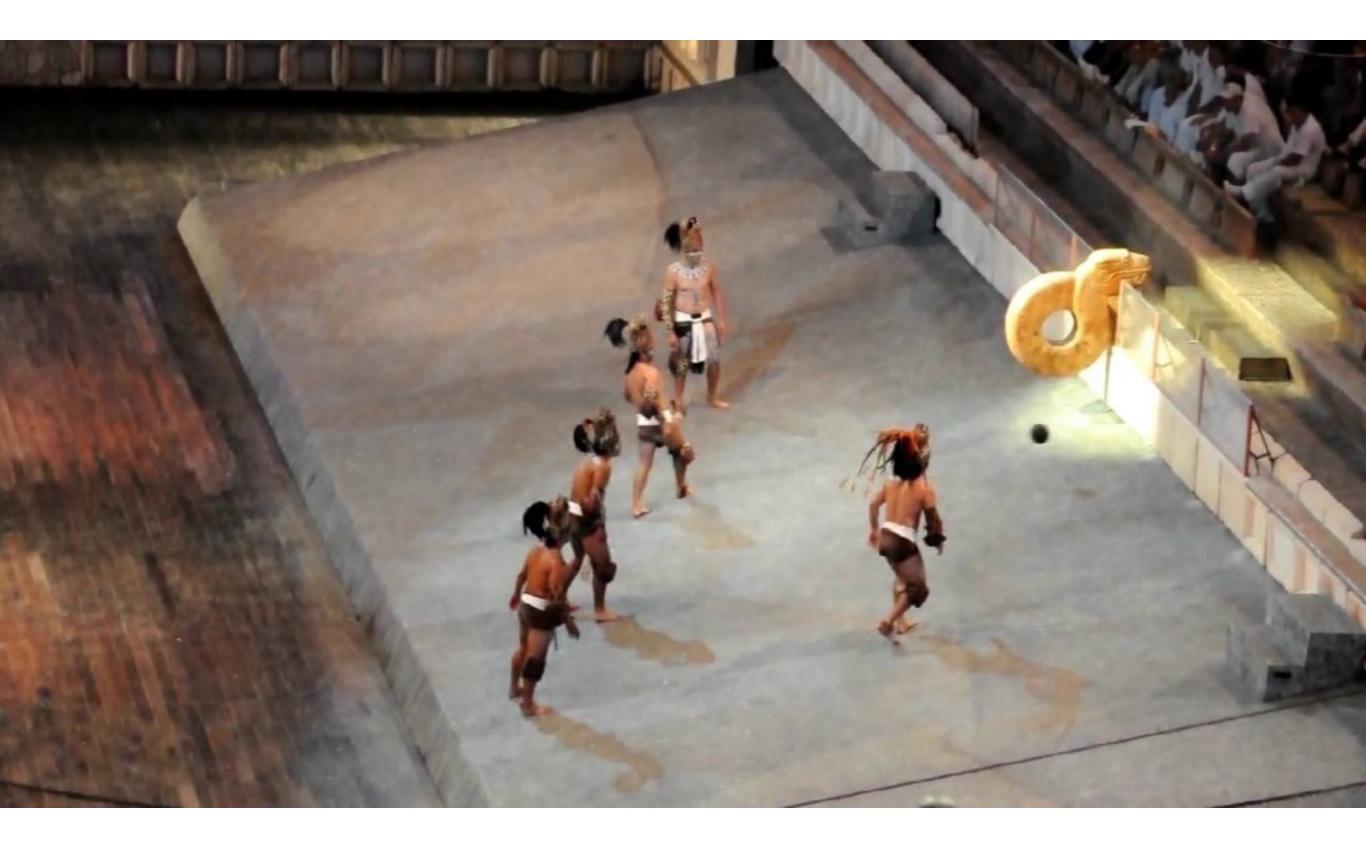
Monte Albán overlooking the valleys of Oaxaca (wah-HA-kah)







Monte Albán the Cosmic Ball Court



The Cosmic Ballcourt



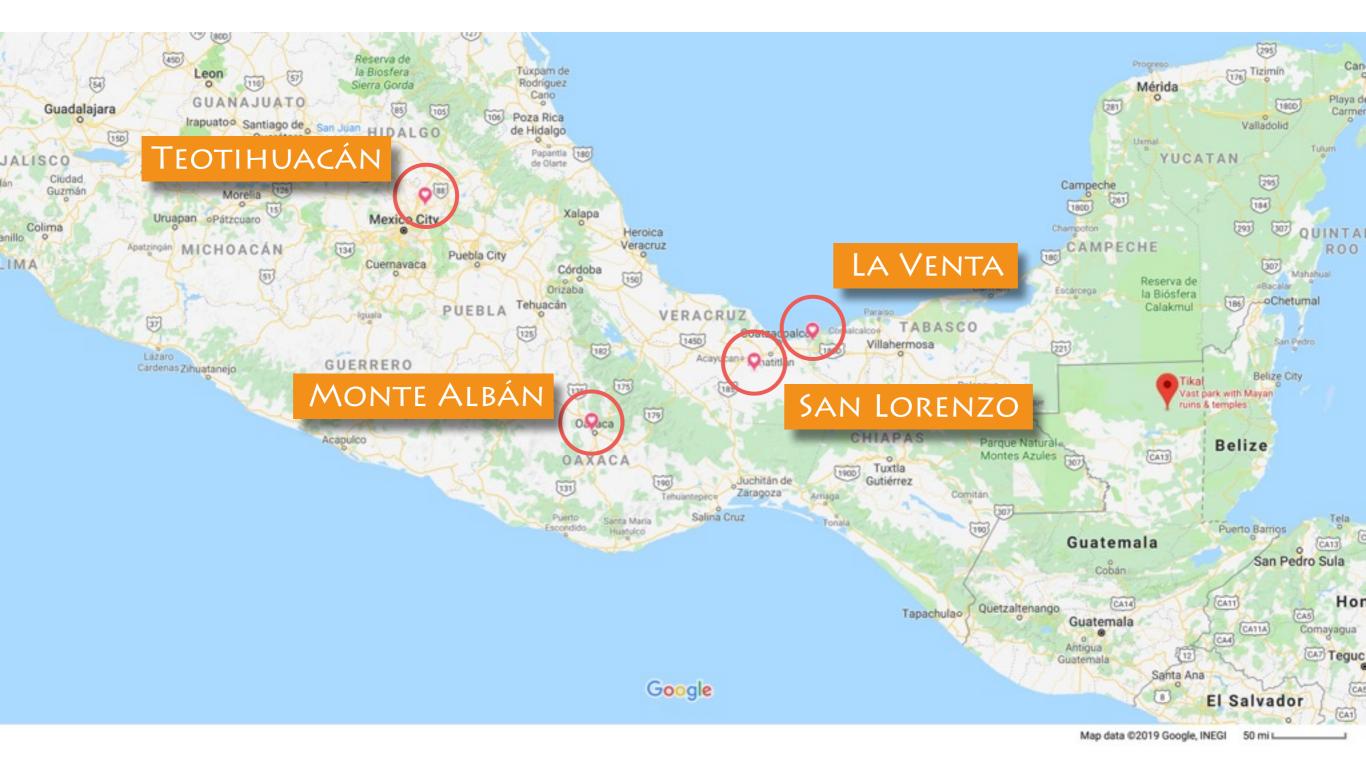




Monte Albán the Cosmic Ball Court Not sure exactly what it meant, but...

... these early cultures marked by *ritual*, *sacrifice*, *violence*, *hierarchy*, *renewal* (of the mud architecture), *violent games* in which loser was decapitated or sacrificed

TEOTIHUACÁN CULTURE



Teotihuacán - the biggest and most powerful of cities in Mesoamerica

From about **200 BCE - 535 CE**Destroyed by extreme weather event?

Theocratic, hierarchical, sacrificial violent culture that aligned Teotihuacán with its underpinnings and its celestial place

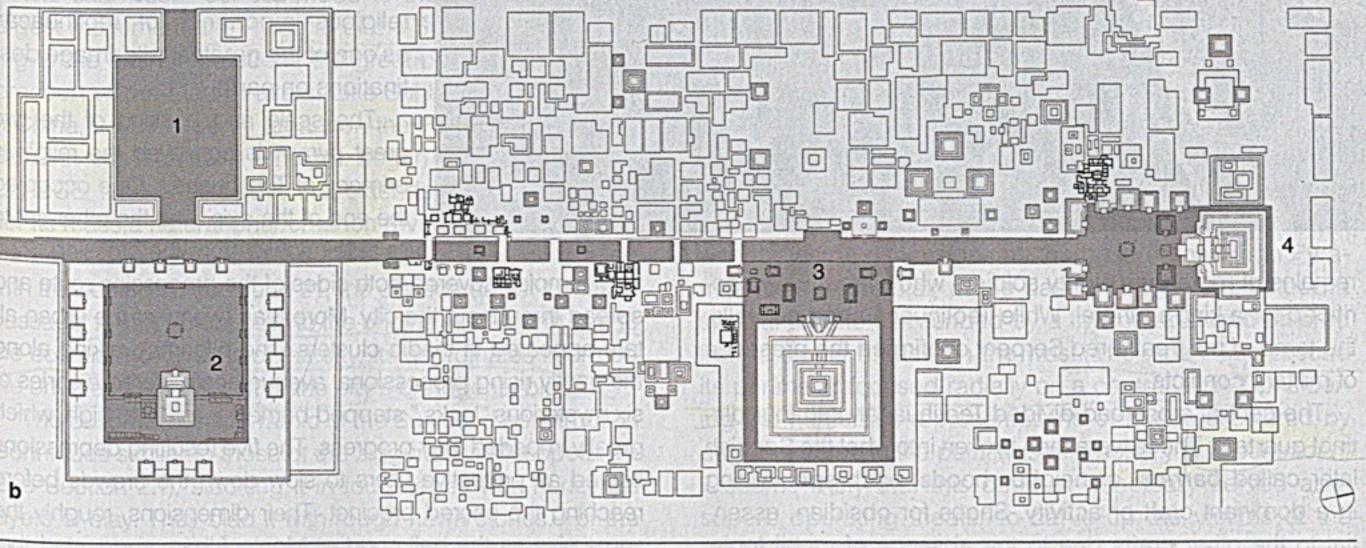


Figure 5.3-5 Teotihuacán. (a) Avenue of the Dead. (b) Plan: (1) market; (2) Temple of Plumed Serpent compound; (3) Pyramid of the Sun; (4) Pyramid of the Moon (after René Millon).

Teotihuacán - 200 BCE - 535 CE axis mundi long wide horizonal N-S avenue called Avenue of the Dead this was their understanding of the world

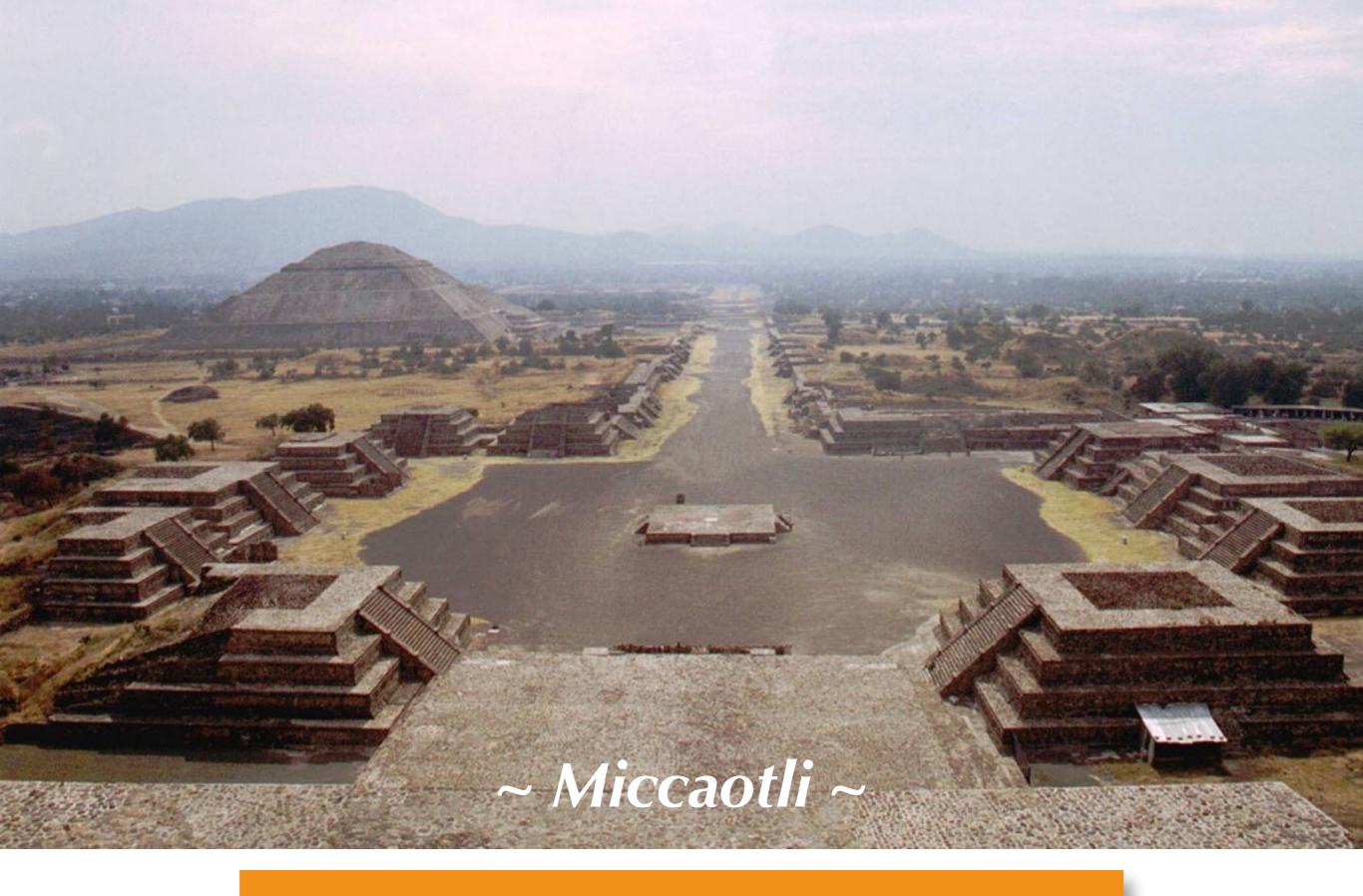




PYRAMID OF THE MOON



PYRAMID OF THE MOON



AVENUE OF THE DEAD



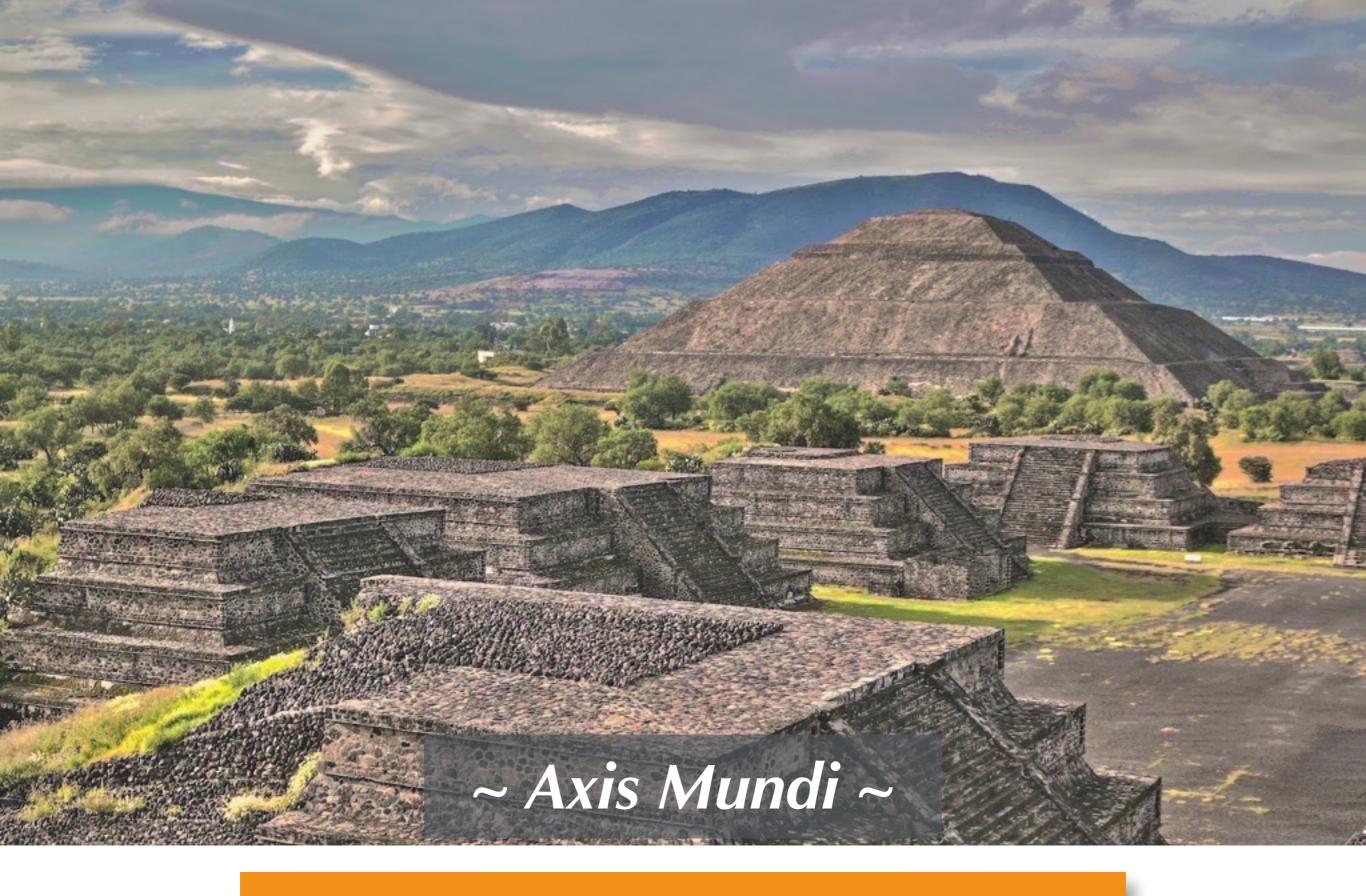
PYRAMID OF THE SUN

Pyramid of the Sun — an Axis Mundi built over a massive cavern thought to be the origin of the world

It also faced 15° North-of-West to align with setting sun of the Summer Solstice

Larger in base than Great Pyramid of Giza but half the height

Therefore — The Pyramid of the Sun connected the underworld with the heavens

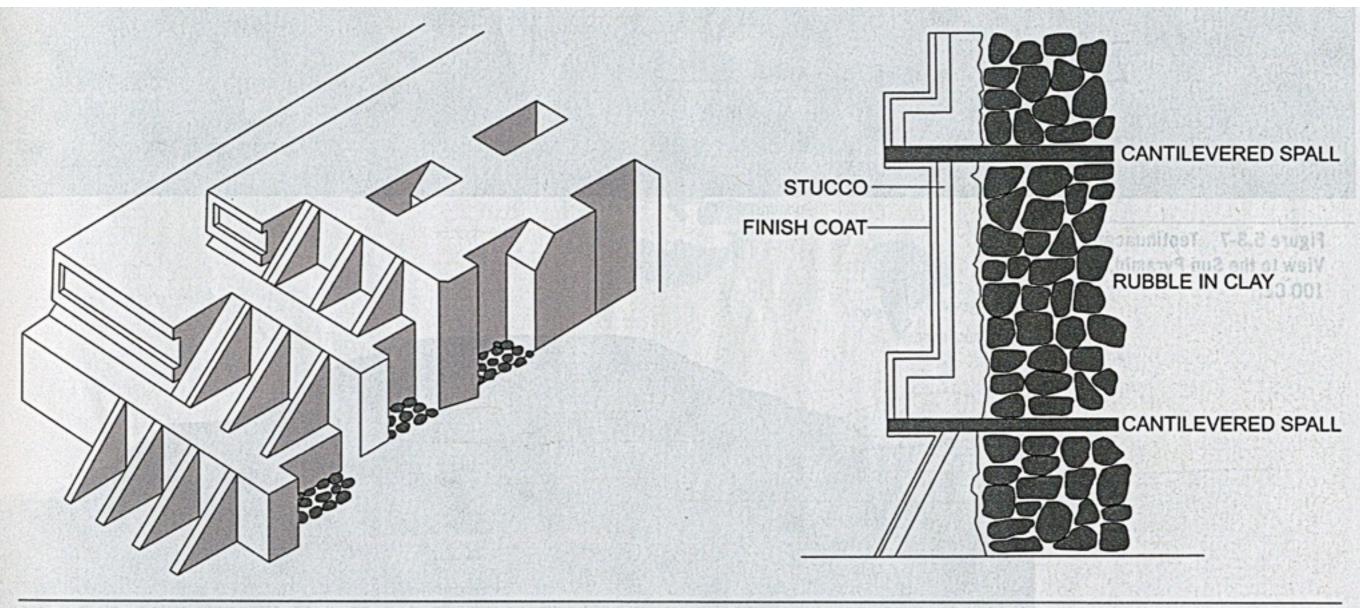


PYRAMID OF THE SUN



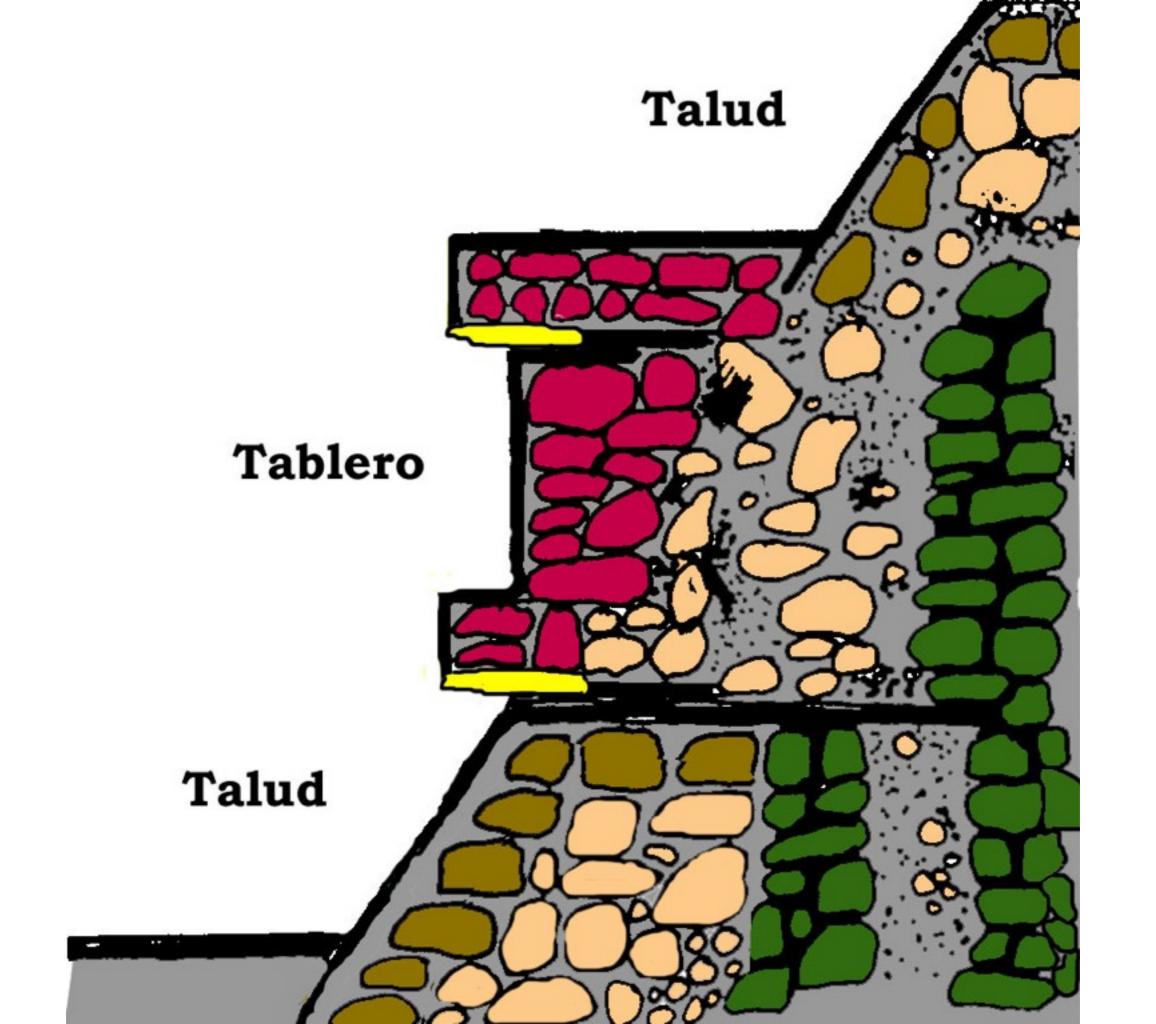
PYRAMID OF THE SUN

Building Techniques



Talud-tablero, cutaway section (after Kubler).

Talud-Tablero





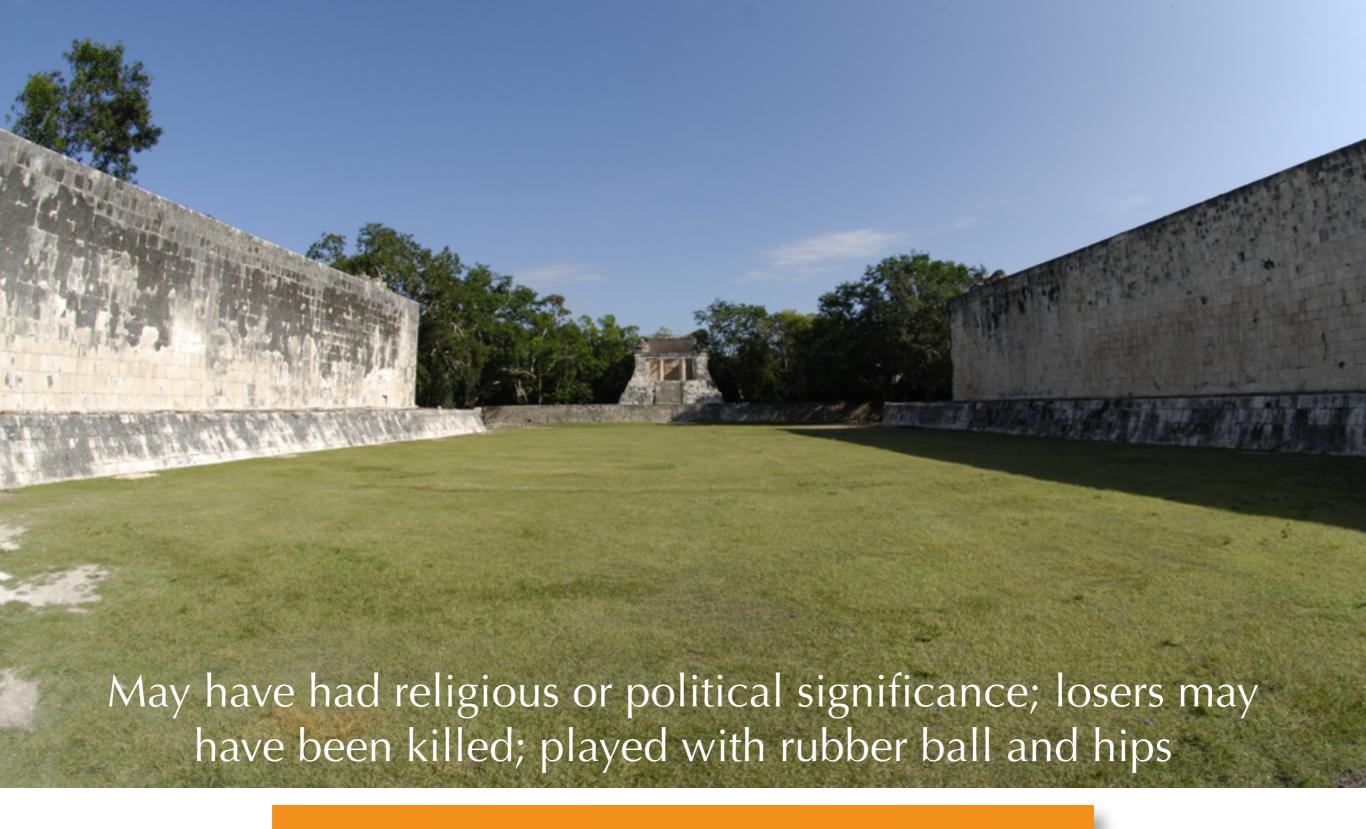


MAYAN CULTURE



THE RADIAL PYRAMID

(four-sided with a temple on top)



THE COSMIC BALLCOURT

(this is the largest one at Chichén Itzá)

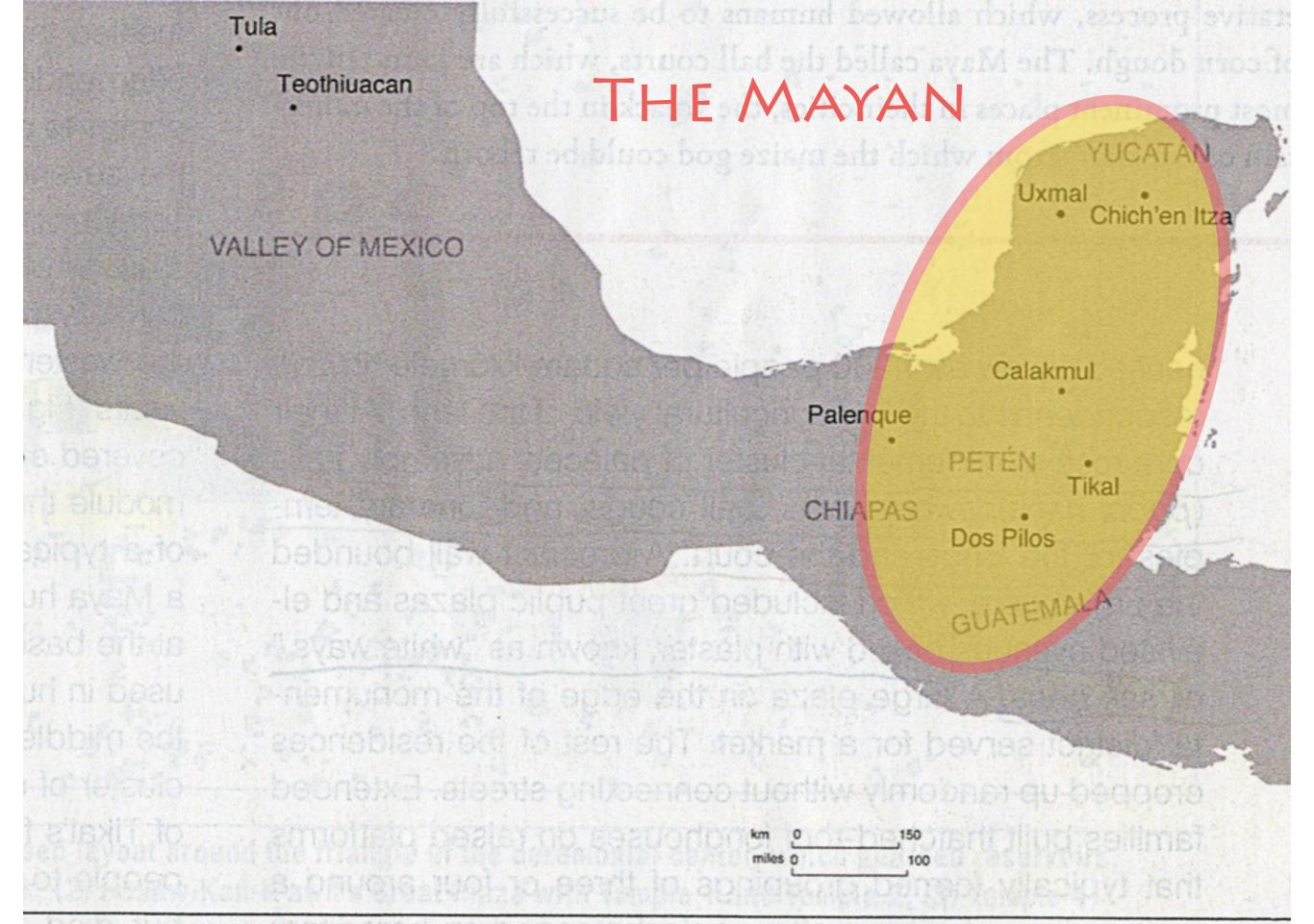


Figure 7.3-1 Map of Mayan lands between Mexico and Guatemala.



Mesoamerica sites of the Maya

Petén region (decline about 900 CE)

Tikal (Guatemala)

Calakmul (Mexico)

About 100 BCE *Mayans* develop...

~ hydraulics, irrigation, canals, reservoirs, terraces ~

Populations less dense, 50,000 - 350,000

Major rebuilding of *Tikal* in *695 CE* due to a victory over *Calakmul*



Tikal

Mayans considered their pyramids to be *mountains*

(metaphorically speaking)

roofcombs on top

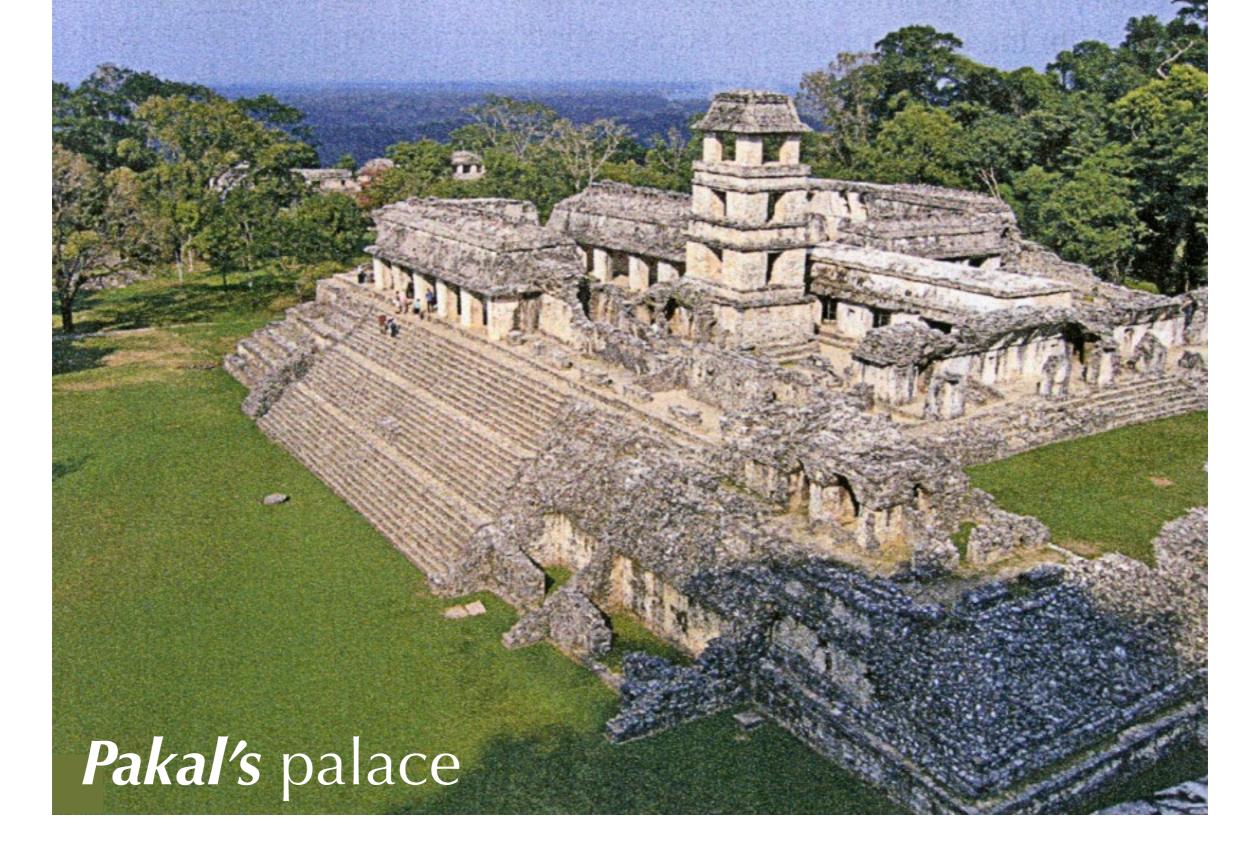


Tikal - Temples I & II in foreground

Palenque

Pakal is the king

Demurred to the greater power *Tikal - a successful political move*



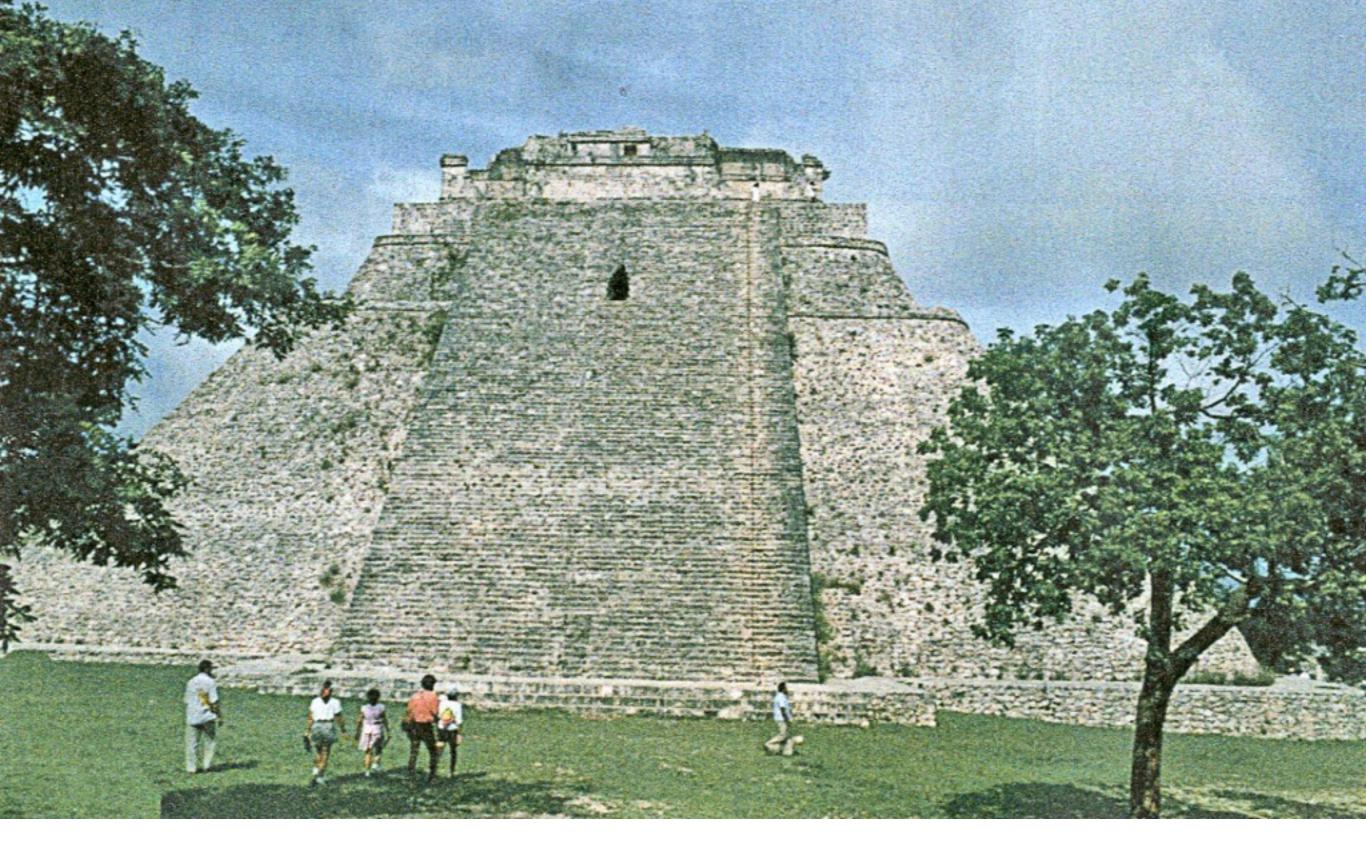
aqueduct on corbeled vaults — corbeled groin vaults carved orthostats telling narratives



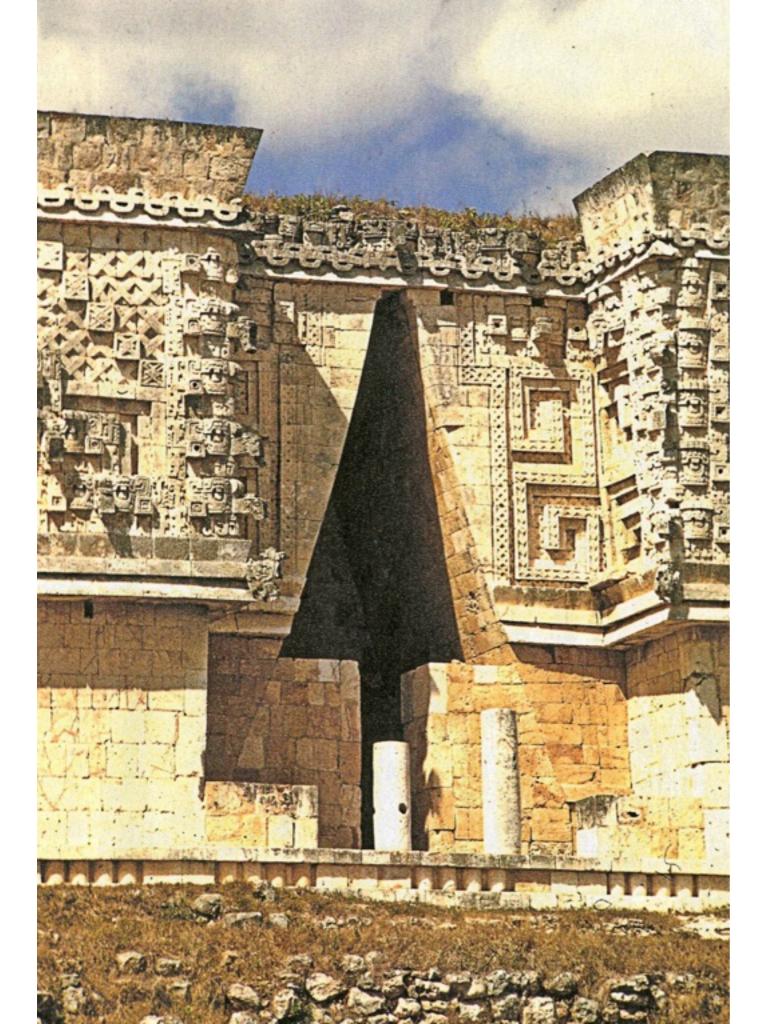
Pakal's tomb 675 CE

After the decline of the *Petén* region in about *900 CE*, the last two major Mayan cities emerged in *Yucatan*

Uxmal and Chichén Itzá



Uxmal



Uxmal

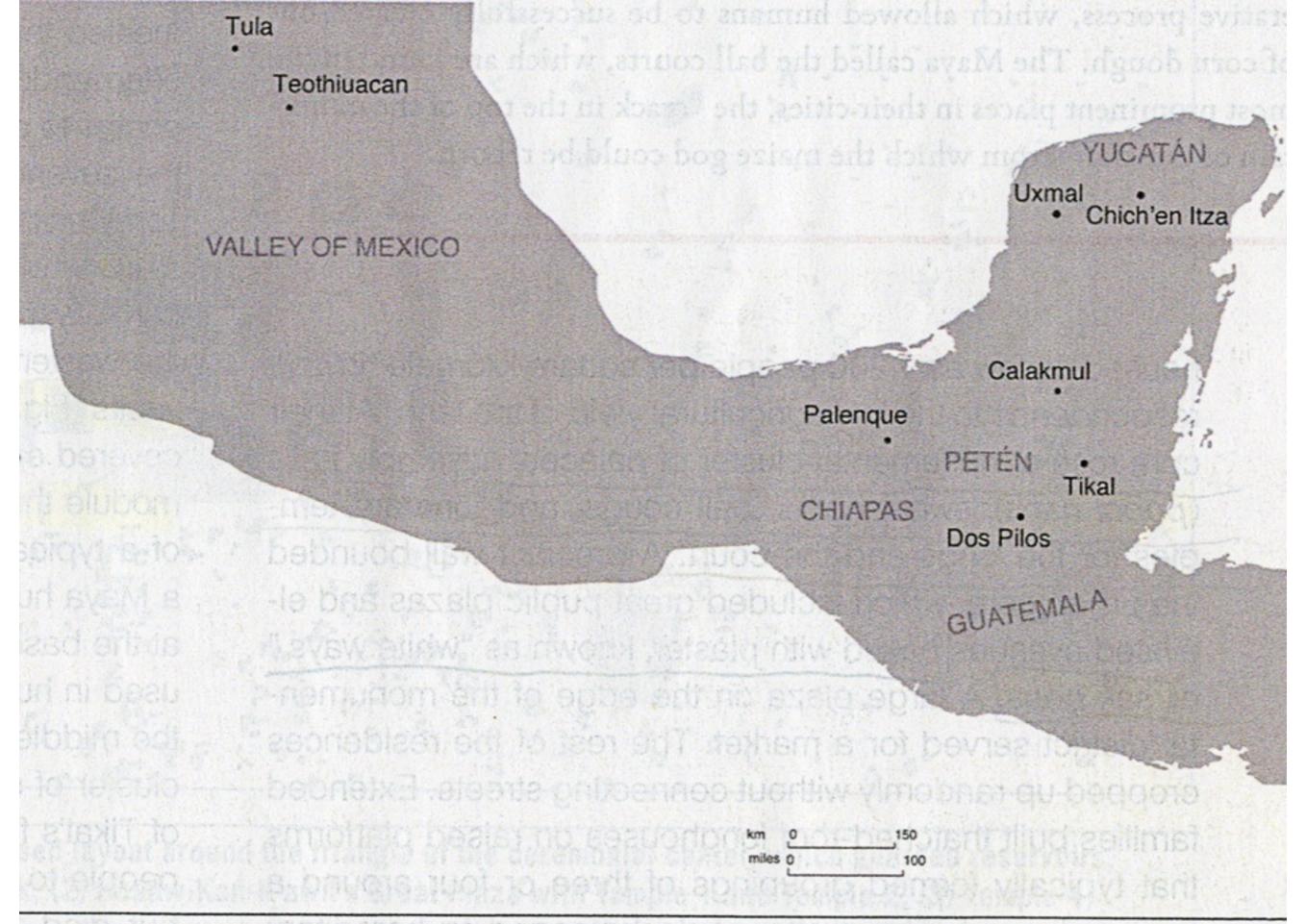


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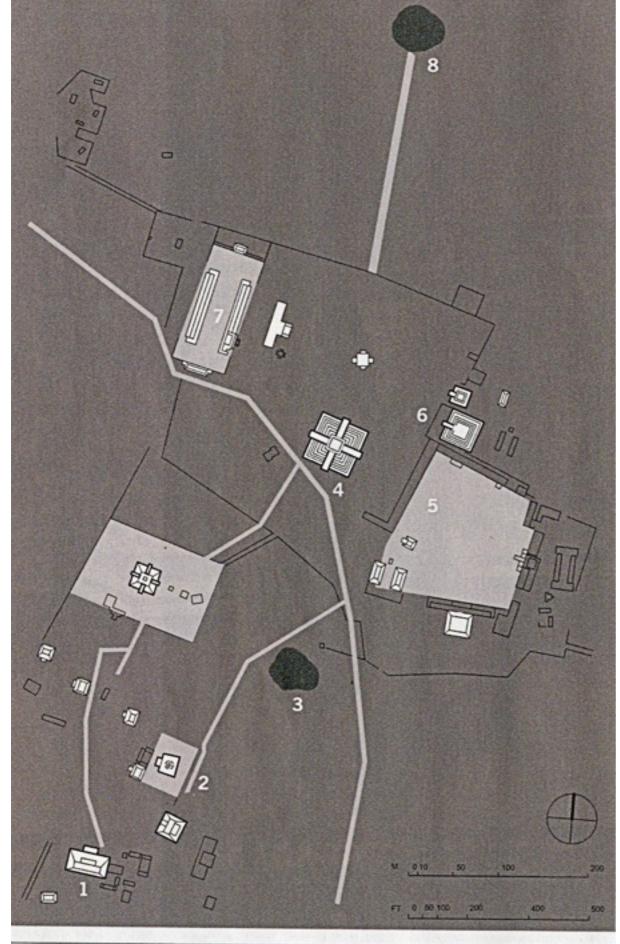


Figure 7.3-9 Chichén Itzá, Mexico. Plan: (1) The Nunnery; (2) El Caracol observatory; (3) small *cenote* watering hole; (4) El Castillo radial pyramid; (5) 1,000 columns; (6) Temple of the Warriors; (7) ball court; (8) large *cenote* watering hole.

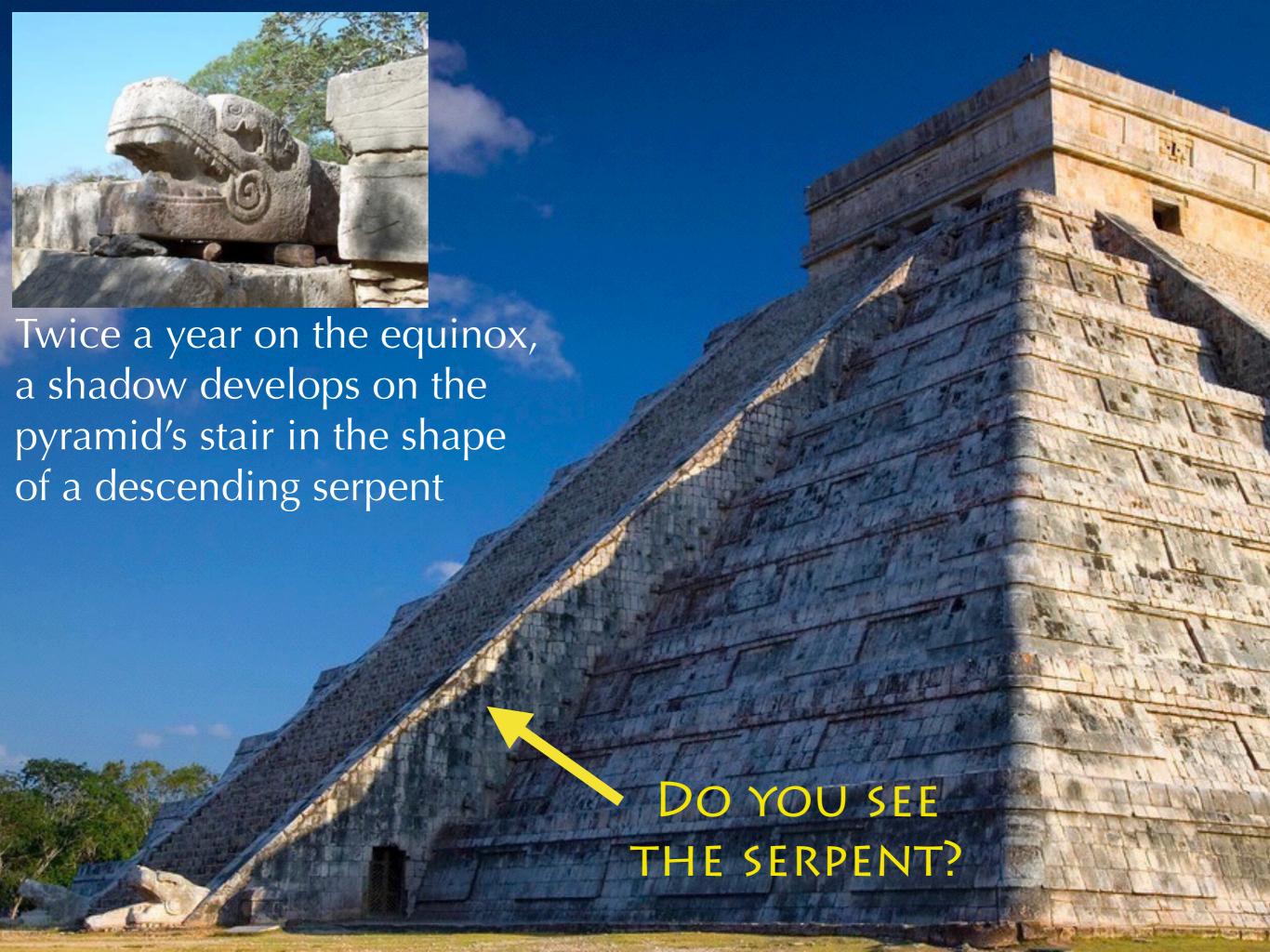
Chichén Itzá

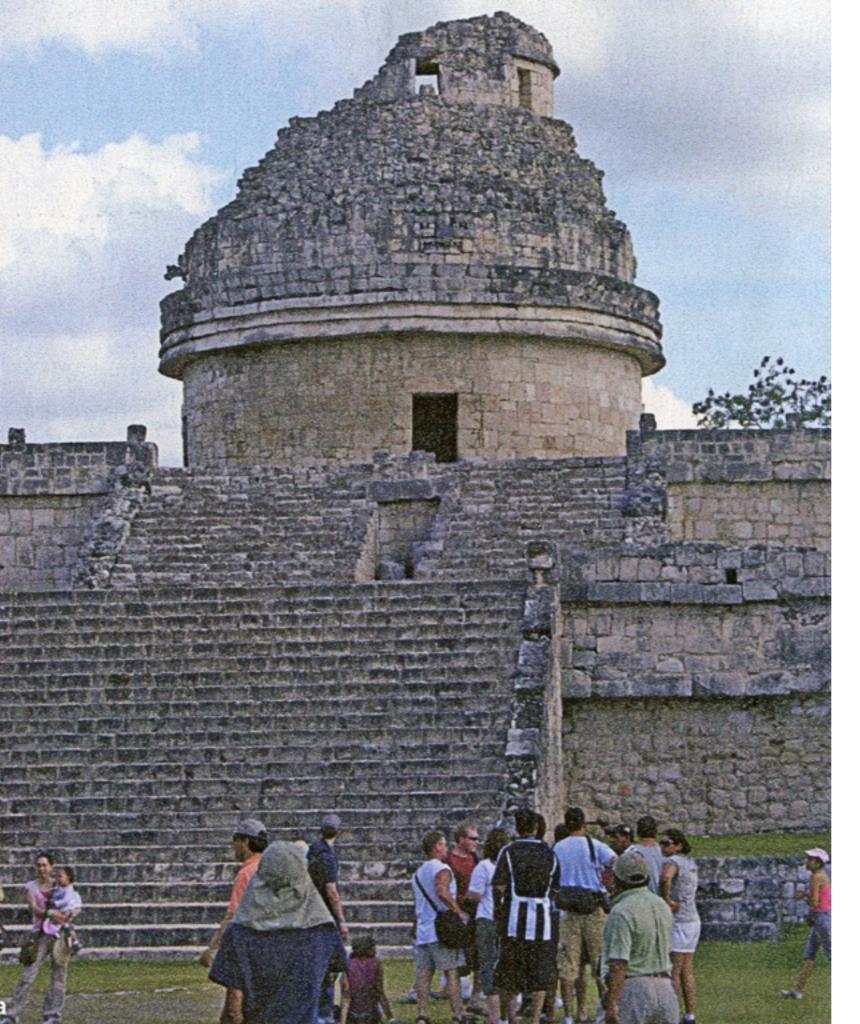
Meaning "At the mouth of the well of the Itzá"



Figure 7.3-11 Chichén Itzá, Mexico. El Castillo radial pyramid, ca. 890.

Chichén Itzá's radial pyramid





Chichén Itzá's Observatory called the Caracol

Aligned with the northernmost positional extreme of Venus



Figure 7.3-12 Chichén Itzá, Mexico. Temple of the Warriors and Group of a Thousand Columns, ca. 900.

Temple of Warriors at Chichén Itzá

Last of Mayan cities abandoned by **950** CE

end