Today's Topic:
Hohokam
• Piman word for "those who have gone"
• Who, where, and how?
  – Contrasts with Anasazi
• When
  – Dating issues?
• Why they left
• Where they went
http://carbon.cudenver.edu/stc-link/hohokam/Hohokam.htm

Emil W. Haury
• 1904 – 1992
• 1st UA Anth PhD
• Gap event
• Mammoth digs
• Studied all SW cultures
• Hohokam
  – "Red-on-Buff Culture"
• Head, Anthro.
• Dir., ASM
• Friend of LTRR

Hohokam
“Red-on-Buff Culture”
• Sonoran desert
• Near rivers
  – Salt and Gila R.
• Tucson examples
• Where from?
  – Mesoamerica
  – Local archaic descendents.
Sonoran Desert Environment

- Climate
- Vegetation
- Big difference:

Hohokam Material Culture

- Extensive Ceramic Decoration
  - Human figures and animals
- Lots of Shell Working ---
  - Bracelets and Pendants
- Ground Stone --
  - Manos and Metates, palettes, censers
- Specialized Crafting Tools –
  - Agave knives, spindle whorls
- Visit ASM!!!

http://www.statemuseum.arizona.edu/exhibits/pvia/index.shtml

http://www.ci.phoenix.az.us/PUEBLO/shceramic.html

www.hp.uab.edu/image_archive/up/upe.html
Hohokam Chronology
- Dated by: $^{14}$C, Archaeomagnetism, Ceramic seriation
  - Why not Tree-rings?
- 500 BC – AD 800
  - Small villages of ………………
  - Centered around ………………
  - Agriculture begins
  - ……………… canals start

http://www.pleione.com/pithouse/

Pithouses
Dug into ground
Frame Structure
covered w/mud adobe
Sheltered side entrance
Occupied ………………(again, remember dating issues)
Most activities probably outside, under ramadas
Visit Pueblo Grande—Phoenix

http://phoenix.gov/PUEBLO/exhouses.html

Preservation
- Mesquite, cottonwood, Saguaro ribs (tree-rings??)
- Indentations in ground
- Burning helps

http://www2.mnc.maricopa.edu/anthropology/Los_Fronholt/
Hohokam Chronology

- AD 800 – 1150
  - Larger communities
  - Ballcourts
  - Massive Irrigation works

Ballcourts

- 200 found, built from
- ........
- ~100 ft long
- ........
- Connection to ........?

Romero Ruin @ Catalina State Park.


Hohokam Chronology

- AD 1150 – 1300
  - .................replace ballcourts
- Post-AD 1300
  - Big houses built
  - Cultural collapse by AD 1450 (but remember dating issues)
Hohokam Platform Mounds
- Low rectangular platforms, with walls
- Filled with trash, capped with ………………
- Associated with …………………………. 13

Big Houses
- Casa Grande
  - Fr. Kino
- 4 stories
-Adobe walls
- Storage
- Astronomical?
- GO Visit!!!

http://www.nps.gov/cagr/index.htm
Harvesting the Desert

- Trash piles instructive
- Plants
  - ………………………
  - ………………………
  - ………………………
- Animals:
  - ……………
  - …………..
  - hunted in fields
  - …………..
  - caught in canals.

Farming the Desert

- Hohokam unsurpassed farmers
- Canal irrigation
  - Hundreds of miles
  - ………………………
  - ………………………
  - ………………………
  - digging tools.

http://www.foodmuseum.com/fmhHohokamCanals.html

Farming the Desert

- Canals well engineered
  - If too steep: …………………
  - If too shallow: …………………
- Pueblo Grande: 10,000 acres (15 sq.mi.)
- Flat streams
- No entrenchment.
Farming the Desert
• Floodwater farming
  – Perennial stream that floods, Santa Cruz
    • ................................soil
    • ................................crop
• Dry farming
  – Direct, divert rainfall sort distances to crops
    • ........................
    • ........................
    • ........................
    • ........................

Environmental Zonation
• Alluvial fans:
  – Variety of microsite conditions

Zone 5
• ........................
• High water table
• ........................
• Dense populations
Zone 2
Less predictable water
- roast areas, up to 35 m diam.
- Many tools

Zone 4
- Mountain pediment
- water table
- farming
- to divert water

Hohokam Abandonment
Climate: Droughts & Floods

Pro:
- damaged irrigation system

Con:
- Had survived
Salt River Stream Flow
- Changes in variation
- Big flow

Hohokam Abandonment
Overpopulation
- Pro:
  - ................. increases after 1300
    - .................. in Sonoran desert
      - Malnutrition evident in bones
      - Just too many people?
- Con:
  - ................. was still productive
  - Social limitations.

Hohokam Abandonment
Soil Salinization
Excessive salt in soil:
- Irrigation water
  - Fresh: 0.5 ppt
  - Ground: 0.7 ppt
  - CAP: 0.7 ppt
  - Ocean: 35 ppt
- Arid environment.
Hohokam Abandonment

Soil Salinization

• Ruins soil for farming:
  – Plants …………………
• Takes ……………………
• Fertile Crescent still dead
• Requires drainage:
  – Must …………………

Hohokam Abandonment

Soil Salinization

• Pro:
  – ………………………due to irrigation
  – Salt River is aptly named
• Con:
  – Salinization takes only 50 years today
  – ………………………for ~1000 yrs.
    * ………………………
    * ………………………
  – Not much evidence

Where Did They Go?

• Reverted …………………groups
• Still in …………………, but not on …………
• Pimas and Tohono O’Odham claim to be descendents of Hohokam
• Hohokam probably had a better quality of life than Pima and Tohono O’Odham at time of Spanish contact
See Hohokam In Tucson
- Ft. Lowell Park
  - E. Glenn St.
  - N. Craycroft
- Go to ne corner
- Pithouse outline
- Lots of interp.