Unit 2 Neolithic Revolution

Announcements:

- Class field trip May 18th 1-4 pm
- Take home midterm handed out end of next week
- Assignment folder update post next week too

Unit 2: Neolithic

- Beginnings of agriculture
- Life ways concept map

Indigenous group board work



Next few weeks...

- Week 4- 4/30 5/2
- Unit 2 Neolithic Revolution wrapped up
- Unit 3 Classic Period
- Week 5- 5/7 5/9
- Unit 4 Artist as Scientist
- Take home midterm handed out Thurs. 5/9
- Assignment folder update posted
- Week 6 5/14 5/16
- Art Sessions 1 and intro to 2
 - Basic drawing
 - Atmospheric perspective
- Take-home midterm AND assignment folders due- Thurs. 5/16
- Required class field trip Sat. 5/18
- Assignment folders handed back Tues. 5/21

Unit 2 Lecture concepts

Neolithic Era – why is it important?

Environmental changes –

major event that occurred

environmental conditions



Rise of agriculture-

6 areas agriculture arose

common characteristics of these areas

3 early agricultural methods-

charact. and groups

nomadic past., shifting agric and settled agric.

Unit 2 activities

- Connections concept map Neolithic era
- Life ways concept map :
 - Hunter/gatherers
 - Shifting agriculture
 - Nomadic pastoralists
 - Early settled agriculture
- Indigenous group board and research notes
- Earth map

Unit #2: Lecture terms

nomadic pastoralists
subsistence
Fertile Crescent
sustainable
shifting agriculture

Connections Concept Map -- CCM

Time period	Primary Lifeway	description of art work and examples	attitude toward nature
Prehistoric era: 2 million - 10,000 years ago Lascaux, Altamira and Chauvet cave art	Α.	В.	C.
2. <u>Neolithic age-</u> 10,000 years ago	Α.	В.	C.
3. <u>Classic Period</u> -5000 years ago= rise of Egyptian, Greek, Persian civilizations	A.	В.	C.

CCM2a Neolithic Era

11,500 - 3,000 ya

- Beginning of Agriculture
- H/G, shifting agriculture and settled agriculture
 Gradual shift in life ways
 - Final stage of cultural and technological development of prehistoric people
 - Settlement into semipermanent villages
 - A beginning of our dependence on domesticated plants and animals





CCM2b Art Work of the Neolithic

- Utilitarian
- Appearance of pottery and weaving
- Tools, weapons, jewelry and clothing
- Decorative religious
- Pride of ownership
- Clan or cast affiliation
- Tools- bone, stone and wood shaped by polishing and grinding
- Created for specific use









CCM2c Neolithic attitudes towards Nature

- Pagan or folk religions nature based
- Separation from nature began but still revered nature as powerful entity
- Worship of mother earth
- Fertility rituals
- Focus on elements that support life water, earth, sun
- Earth Wisdom understand the needs of livestock, crops, water sources/capturing etc.



Life Ways Concept Map

Human Life ways Concept Map				
Life way	Characteristics	examples		
1. Hunter/ Gatherer	a.	b.		
2. Nomadic Pastoralists	a.	b.		
	a.	b.		
4. Early Settled Agriculture- 300 years ago 10,000-	a.	b.		

LCM 1aHUNTING & GATHERING

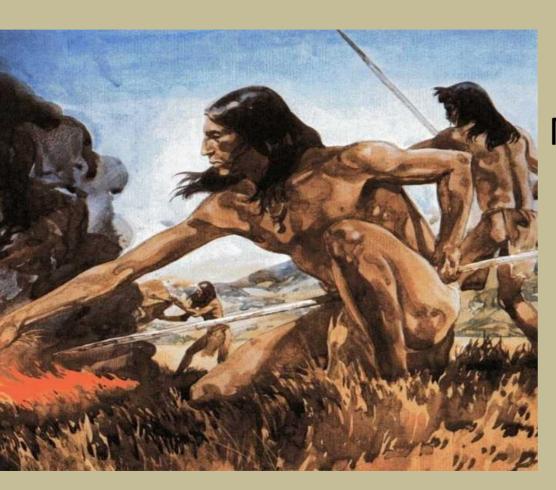
Typical of most h/g cultures:

- nomadic
- limited population size
- egalitarian society
- earth wisdom
- few possessions
- subsistence lifestyle...
- marginal land (today)



Photo: Last of the Ona, Tierra del Fuego

LCM1aHUNTING & GATHERING



Limited impact:

Most h/g cultures did not have much of an impact on their natural environment

But there were exceptions...

LCM 1aEnvironmental Impact



Burning grasslands: the sixth use of fire

- Altering plant communities—opening up forests encouraging grasslands therefore large herbivores.
- Halting succession and creating edges.
- Disperse prey—collect insect and small mammal species as they fled the fire.
- increase grass species for food and quality basketry material

Over hunting resulting extinctions of mega fauna:

Early Domestication of prey species

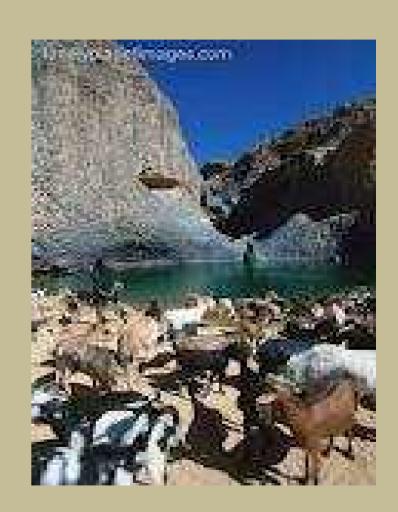
Early human's drive to domesticate the wild animals:

- the need to control our food supply in an unstable world
- ensure a constant supply of meat without expending too much energy
- eliminating dangers of hunting---although protecting their herds from predators becomes a major past time.



LCM2a Nomadic Pastoralist characteristics

- ~11,500 years ago
- Nomadic- movement from one area to another
- earth wisdom
- Need for vast amounts of land
- Small population size
- Very few possessions
- Traditional subsistence lifestyle
- Control over prey resource population and location
- Ensure a constant supply of meat, milk and wool.
- Least impact of all <u>agricultural</u> societies--local species



Domestication of plants:

~10,000 years ago

One of the key changes in the human experience, second only to the industrial age

Introduced by women (gatherers)
More control over our food
resources

populations increased required a more settled existence. Spread very gradually



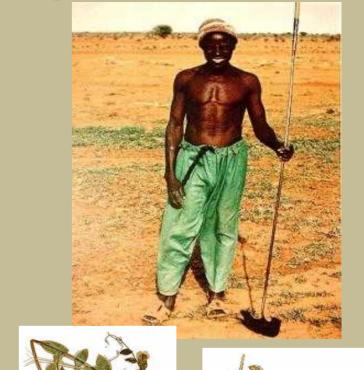


Neolithic Revolution: Early Agriculture

Began with the development of agriculture in ~ six parts of the world Most located along flood plains of major rivers.

End of the ice age, more water and fertile soil was available.

More productive individual plants selected over time creating more optimal characteristics
Grass species were the primary plant species originally domesticated ie wheat, barley etc

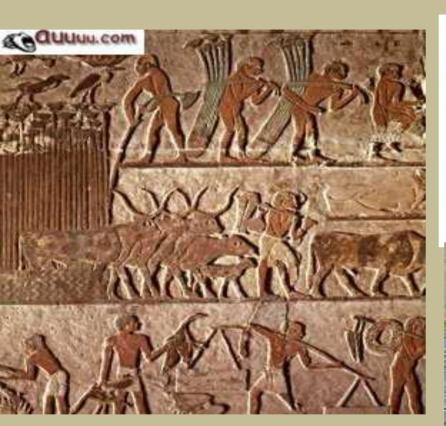


Pea



- Shift to agriculture was gradual supplemented by hunting and foraging.
- Various H/G and nomadic pastoralist groups resisted the change, many never adopted agriculture.
 - Resistant to settled lifestyle
 - Culture, ritual, ceremonial relationship to nature steeped in a nomadic, nature-based view point.
 - Environmental conditions not conducive to cultivation





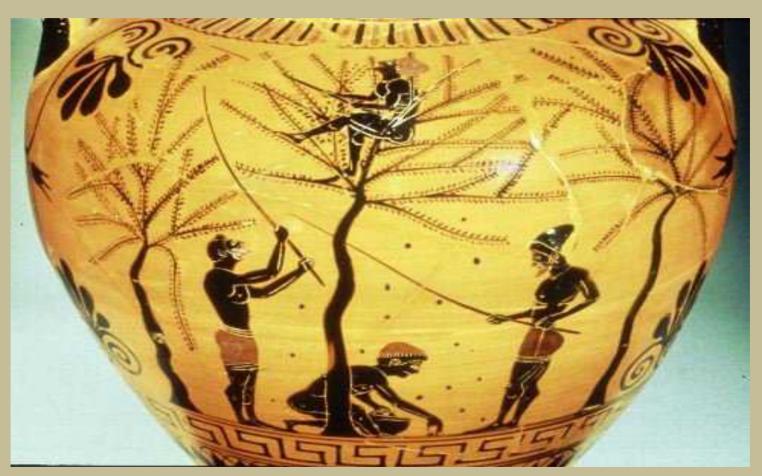




Mesopotamia – Fertile Crescent, Middle East – 10,000 ya 1st settled farming way of life – wheat and barley

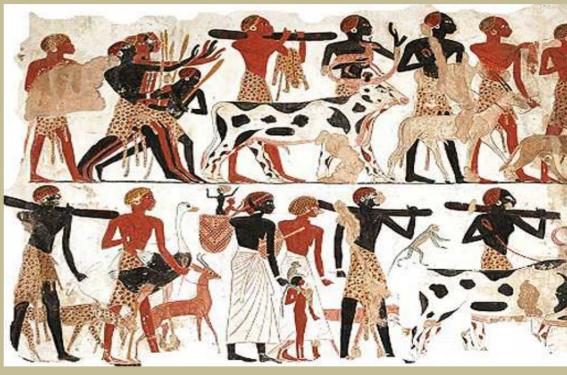


Yangtze River Valley and Yellow River Valley, Chinarice and millet 8.000 va



Northern Greece --Macedonia sheep, wheat, grapes--Olive harvest— Earliest agriculture in Europe --7,000 ya





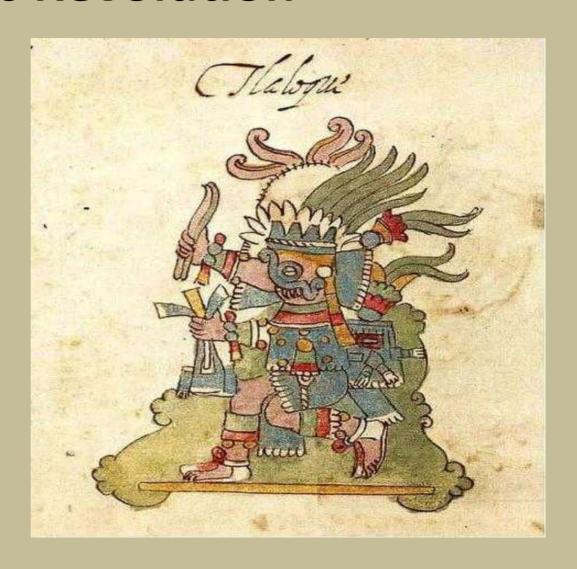
Nile River Valley, Egypt—9,000 ya
Wheat and barley—earliest farming settlement in Africa



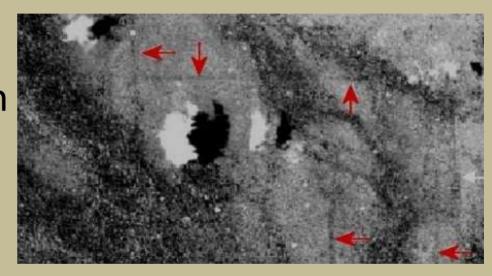
Peru , South America 8,000 ya wheat, barley, quinoa and legumes 7-8,000 ya irrigation canals

Mexico, Mayan and Aztec-Central American-

- 3 sisters --Maize, squash and beans- 10,000 ya
- Spread to North America
 ~5,000 ya from central
 America
- By 3,000 ya they had highly developed stratified societies.
- By contact, population in the millions



IKONOS satellite image of likely Mayan irrigation canals dating from approximately 3000

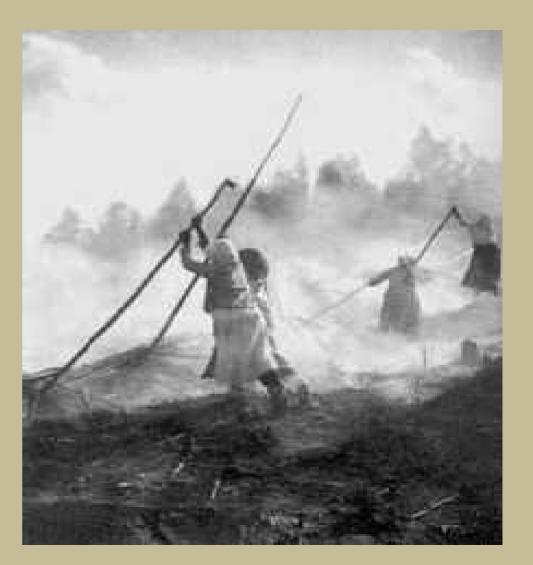


ya. Yucatan, Mexico

LCM 3a. SHIFTING AGRICULTURE

Slash and burn agriculture

- Earliest subsistence
 method Neolithic period
 in Middle East, Europe and
 the Americas
- Closest agriculture comes to being nomadic



SHIFTING AGRICULTURE the process





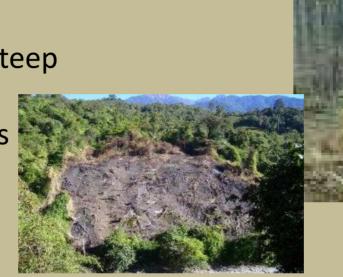
- Small plot is cleared
 - by hand using primitive tools.
- Fire is used to clear slash
 - Ash provides nutrients for crop plants
- Plots are cultivated
 - for ~5yr or fewer depending on habitative
 type
- plots are abandoned-
 - -Allows soil to regenerate
 - -return to plot 10 yr. later
 - Many families having multiple plots the move between in a circuit— handed down generations

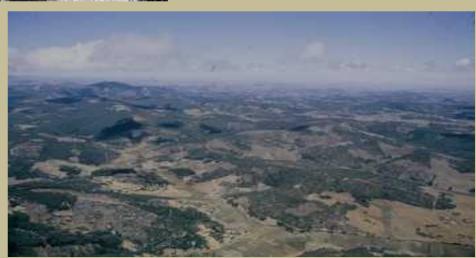
SHIFTING AGRICULTURE

3a. Can be sustainable IF:

-Plots are small and not on steep terrain.

- -Continuous forest surrounds plots
- -clear manually before being burned.
- -Reseeding of forest occurs before moving on to another plot
- -Area not further disturbed 10+year
- -supports small human population



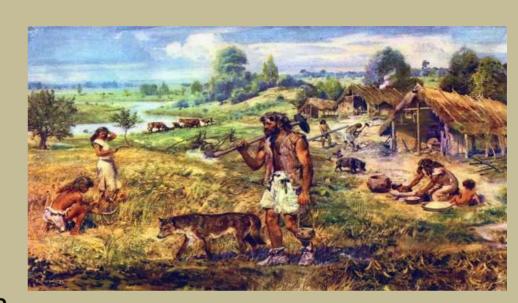


LCM 4a. Settled agriculture- 10,000 - 300 ya

Early subsistence agriculture:

Neolithic 10,000-1000ya

- Permanently settled
- Variety of crops cultivated and livestock raised on one farm.
- Subsistence
- Use of natural methods of fertilization of soil and pest control, etc.
- Local impact
- Small family farms on a large area of land
- Individual ownership of land



LCM 4a. Settled agriculture

IMPACTS: localized

Hybridization of plants and animals

Soil degradation and erosion

Loss of habitat and open space

Decrease of water quantity/ quality

Increase in surplus- waste



Research Homework Sign up for one:

Gwich'n - Arctic

Tuareg- N. Africa

Baiga-India

Guna-Panama

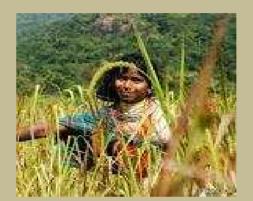
a. characteristics-

who are they?

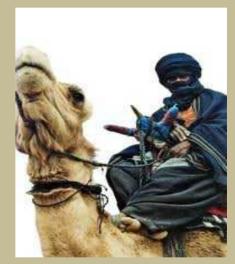
how do they survive?

where and how do they live?

b.impacts /challenges today and past offer examples

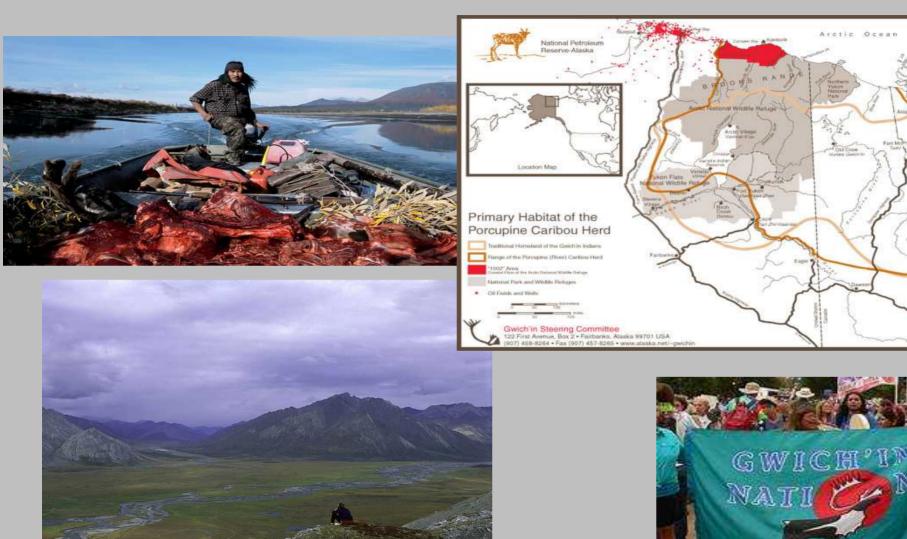








Gwich'in of the Arctic



Tuareg, of Northern Africa





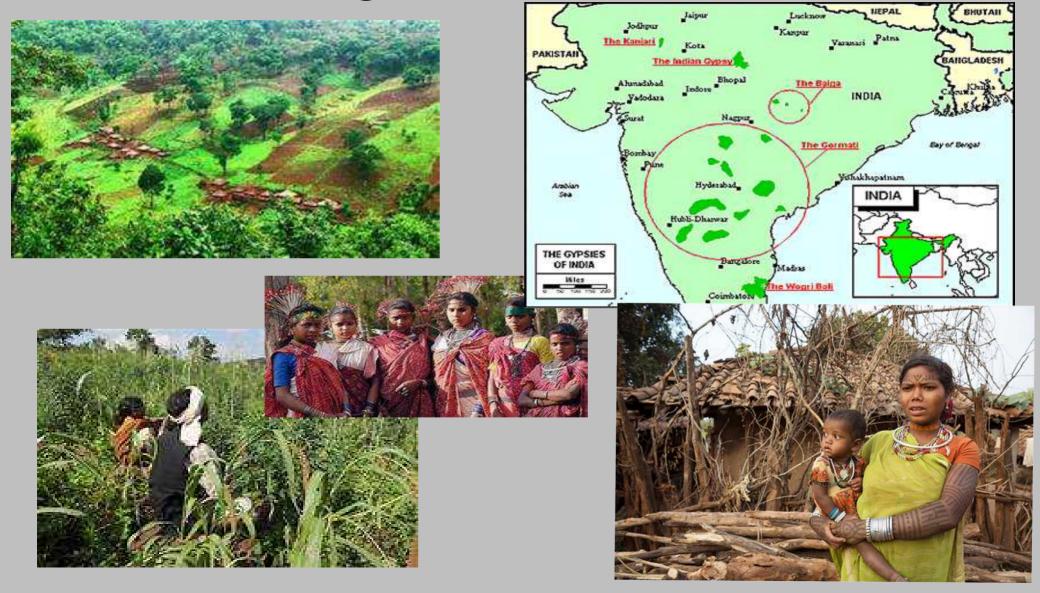






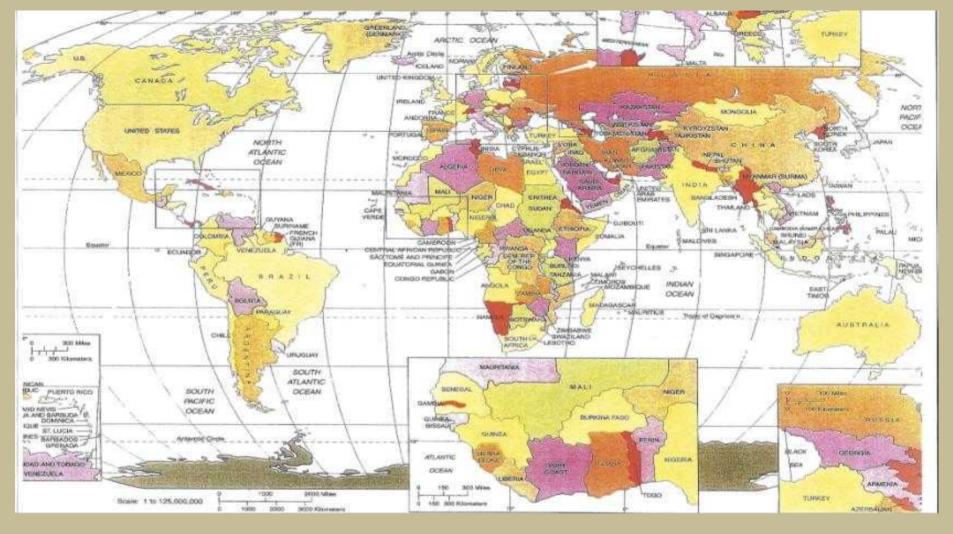


Baiga Culture, India



Tule or Guna culture, Panama and Columbia





Unit 2 Earth Map update:

- 2a. Fertile Crescent, Middle East 2d. Egypt, North Africa
- 2b. Yangtze River Valley, China 2e. Peru, South America
- 2c. Macedonia, Europe 2F. Yucatan, Central America