

## Early Archaic *Homo sapiens* and their Contemporaries

transitional *Homo erectus*  
*Homo heidelbergensis*  
 archaic *Homo sapiens*

### Important Early Archaic *Homo sapiens* Sites

<u>Site Location</u>	<u>Years Ago (approximate)</u>	<u>Cranial Capacity (in cm.<sup>3</sup>)</u>
<b>Africa:</b>		
Lake Ndutu (near Olduvai Gorge)	400,000	1100
Broken Hill (Kabwe), Zambia	130,000+	1285
<b>China:</b>		
Dali, Shaanxi Province	230-180,000	1120-1200
Jinniushan, Liaoning Province	200,000	1260
<b>India:</b>		
Narmada Valley, Central India	250,000?	1155-1421
<b>Europe:</b>		
Terra Amata, France	400,000	-----
Arago Cave, France	400-300,000?	1150
Bilzingsleben, Germany	425-200,000	-----
Atapuerca, Spain	320-190,000	1125-1390
Petralona Cave, Greece	300-200,000?	1190-1220
Steinheim, Germany	300-250,000?	1100
Swanscombe, England	300-250,000?	1325?
Ehringsdorf, Germany	245-190,000	1450
Vértesszöllös, Hungary	210-160,000?	1115-1434

Neanderthals 130,000- 35,000 (Europe, w. Asia, n. Africa)

*Homo sapiens neanderthalensis/Homo neanderthalensis*

#### Discoveries

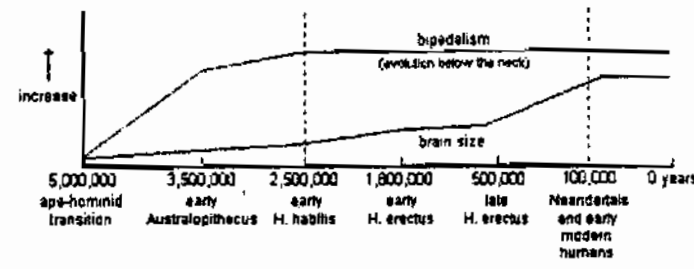
1820's W. Europe  
 Engis, Belgium, 1839  
 Gibraltar 1848  
 Neander River Valley (near Dusseldorf, Germany) 1856  
 Darwin's *Descent of Man* 1871  
 Wm. King 1864 "Neanderthal Man"

Spy, Belgium 1886  
 La Chapelle-aux-Saints, sw France  
 Marcellin Boule (1911-1913)

Neanderthal Anatomy:  
 large bodied, heavily muscled  
 relatively short stature  
 bipedal, dense bones  
 long skulls,  
 low, sloping foreheads,

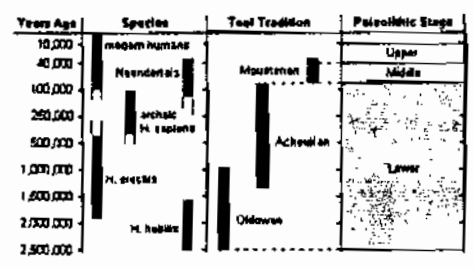


rel. large brow ridges and noses  
 lacked chin  
 large cranial capacity (1300- 1750 cc) (Mean= 1520 cc)



mosaic evolution  
 encephalization

mtDNA  
 Neander Valley specimen  
 Caucasus Mt. (29,000 ya)  
 Portugal (24,500 ya) 1999

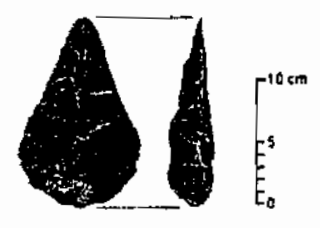


Archaic *H. sapiens* culture

Lower Paleolithic (Oldowan and Acheulian)  
 Mousterian (Le Moustier) Middle Paleolithic

adaptation to hunting & gathering in sub-Arctic

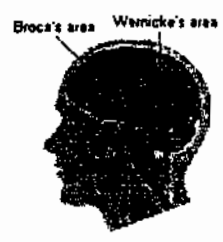
Levallois technique (percussion flaking)  
 Levallois flakes (knives, scrapers, spear points etc.)  
 Use of animal skins as clothing (Stone awls, borers & Le Ferrassie incisors)  
 habitation sites  
 Umm el Tlel 50,000 ya Syria



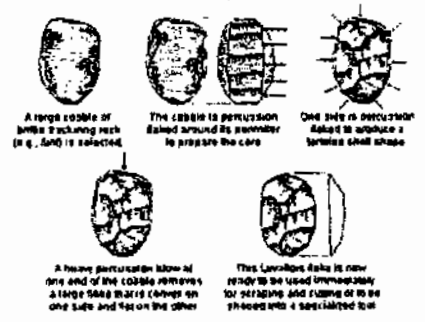
Cannibalism: Moula-Guercy Cave, France (120,000-100,000 ya)

Atapuerca, Spain

ritual burial of dead  
 Shanidar, Iraq



speech



Cave bear cults: Regourdou  
 Drachenloch Cave, Switzerland

Cave, France,

Divje Babe 1 site, Slovenia (82,000-43,000 ya) earliest musical instrument?

Fire  
 Kenya 1.5 mya  
 Terra Amata, France 400,000 ya  
 Shelter

