Early Modern *Homo sapiens* (*Homo sapiens sapiens*)

Les Eyzies, France (28,000 ya) = "Cro-Magnon" people

* see list at end for more specimens and sites throughout Old World

**Anatomy**

- distinctly high rounded skull
- cranial capacity around 1350 cc (may exceed 1590 cc.)
- no occipital bun
- rounded delicate occiput
- high vertical forehead
- smaller or no brow ridges
- non-protruding smaller faces (slightly broad)
- maximum width located relatively high up on the skull
- face and nasal cavity smaller
- distance between eye orbits reduced
- strong chin
- 5'4" and 6' (skin color and body hair difficult to surmise)

Skeltons are generally less robust and musculature lighter

**Origins of modern *H. sapiens***

Africa and/or SW Asia

Qafzeh, Israel 115,000 - 96,000 ya

Klaises River Mouth and Border Cave, S. Africa 120,000 - 100,000 ya

Europe and E. Asia: 50,000 - 40,000 ya

1. Replacement Model (Out of Africa or Noah's Ark Model)
   - Christopher Stringer, Peter Andrews
   - 200,000 - 100,000 ya

2. Regional Continuity Model (Milford Wolpoff)

**Fossil and Genetic (DNA) Evidence**

**Predictions**

3. Partial Replacement Model (Assimilation) Model (G. Brauer, Fred Smith)

mtDNA

- "mitochondria Eve"
- mitochondria

Rebecca Cann, Alan Wilson, and Mark Stoneking (UC Berkeley)

John Relethford

DNA, Y Chromosome, chromosome 12, betaglobin gene

**Regional Continuity and fossil evidence**
Alan Thorne

Expansion out of Old World

Australia
Sundaland/Sahuland
40,000 - 50,000 ya
Lake Mungo (25,000 - 30,000 ya)
Kilor (15,000 ya)
Kow Swamp (10,000 ya)
Willandra Lakes (50,000 ya??)

New World
12.5 ya (30,000 ya??)
Beringia
Folsom & Colvis projectile points

Pacific
Austronesian expansion

Other specimens of anatomically modern humans:
Africa
Klasies River Mouth, South Africa 120,0007 ya
Border Cave, southeast South Africa 75,000? ya
Omo Kibish, southern Ethiopia (130,000 ya)
Langbaan Lagoon footprints (117,000 ya)
Lastoli (120,000 ya)

Near East
Jebel Oafzeh 100,000 ya
Skhul 115,000

Europe
Cro-Magnon (23,000 - 27,000 ya) Les Eyzies, Dordogne, s.w. France
Combe Capelle, France 30,000- 35,000
Five Knolls (England)
Chancelade (France)
Grimaldi (Italy)

Asia
Upper Cave Zhoukoudian 18,000- 10,000 ya
Oedis (50,000)

Southeast Asia
Niah Cave, North Borneo (41,500 ya)
Wadjak, Indonesia (10,000- 2,000 ya)