Stephen Jay Gould on “deep time”

“geology’s greatest contribution to human thought....[a discovery] so central, so sweet, and so provocative, that we cannot hope to match its importance again.”

From Time’s Arrow, Time’s Cycle (1987)
GEORGII AGRICOLAE
DE Rerum Metallica Libri XVI
qui eis Officia, Instrumenta, Machinae, ac nostris domibus ad Metallica, cum spectantia, non modo huc utilissimi describuntur, sed & per effigies, suis locis inseritis, auctore Basiliensi, Germannici, & appellatum est ob occlusum potentium, et divinis traditum non possit.

RIVIÆRUM
DE ANNALESE SUBTERRANEIS Libri ab Autore ex cognitissimis Indiciis ducebat, quosquid in operibus traditum est, qualiter demonstratur.

FROBEN

BASILEÆ M• D• LVI•

Quae Privilegia Imperatoris in annos V., & Guiliam Regem ad Saxonicum.
Comparison of Werner’s Neptunist Theory and Hutton’s Plutonist Theory

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See: http://bit.ly/kJLrQ8
Baron Georges Cuvier (1769-1832)
From Cuvier’s *Le règne animal*, first published 1817
Cuvier’s Animals

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See: http://ecx.images-amazon.com/images/I/516MD0GJX4L._SS500_.jpg
Handaxes, from article in Archaeologia (written by John Frere), 1800
PRINCIPLES
OF
GEOLGY,
AN ATTEMPT TO EXPLAIN THE FORMER CHANGES
OF THE EARTH'S SURFACE,
BY REFERENCE TO CAUSES NOW IN OPERATION.

BY CHARLES LYELL, ESQ., F.R.S.

IN TWO VOLUMES.
Vol. I.

LONDON:
JOHN MURRAY, ALBEMARLE-STREET.

This image is public domain
Frontispiece, Lyell’s Principles of Geology
From William Buckland, Reliquiae Diluvianae,(1823)
SECTION OF THE CAVE CALLED GOAT HOLE.
In the Sea Cliffs 15 Miles West of Swansea
Kent’s Cavern

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See: http://farm6.static.flickr.com/5004/5380642570_4eef72fcef.jpg
Neandertal skull (left)
Homo sapiens (right)

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Neandertal skull (left)
Homo sapiens (right)

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See:
http://anthro.palomar.edu/homo2/images/Neandertal_modern_human_skulls.gif
27 April 1859
Gravel pit at Abbeville, France
Image of Neandertal skull from Huxley’s *Man’s Place in Nature*, Vol. 7 (1863)
Artist Conceptions of Neandertal

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See: http://custance.org/old/evol/3ch3/fig11.jpg
Artist Conceptions of Neandertal

Image removed due to copyright restrictions.
See: http://frankfrazetta.org/images/frank_frazetta_neanderthal.jpg
La Madeleine Art Objects

Image removed due to copyright restrictions.
See: http://www.donsmaps.com/madeleine.html
Les Eyzies, Dordogne region, southern France

- Railroad line put through 1868
- In blasting a rock shelter: 4 skeletons found (tall, large brained, long-headed)
- Formal burial with pierced shells and other ornaments
- Called Cro-Magnon after the shelter
- Neandertal skeletons also found in that area
Abri de Cro-Magnon

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See: http://www.megalithic.co.uk/a558/a312/gallery/France/Aquitaine/aP5190370_Cro_Magnon.JPG
Skull, found 1868 in Abri de Cro-Magnon, Les Eyzies

Image removed due to copyright restrictions.
See: http://www.mos.org/evolution/fossils/photos/cro-magnon.jpg
From John Lubbock, *Prehistoric Times* (1865)
From Lubbock, *Prehistoric Times*
Kent’s Cavern today

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See: http://www.kents-cavern.co.uk/