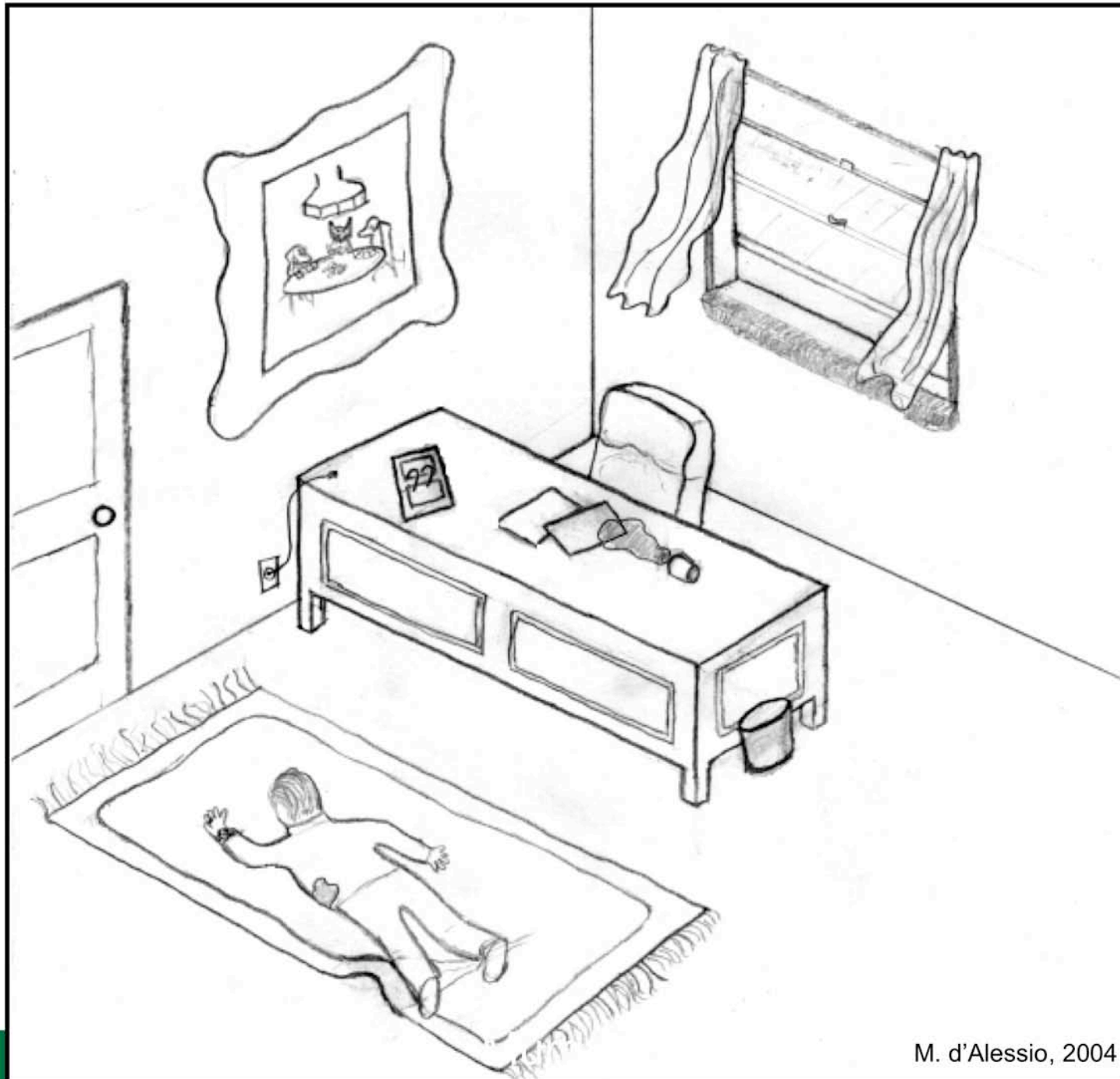


School Yard GEOLOGY



<http://www.monmouth.com/~cathygrim/mystery.htm>

GeoSleuth



M. d'Alessio, 2004

Grand Canyon, Arizona

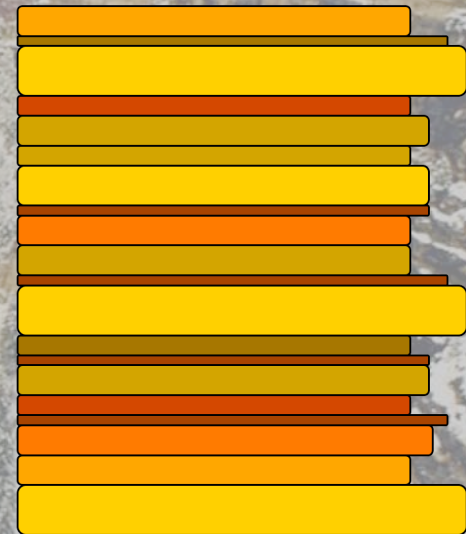
<http://www.earthscienceworld.org/imagebank/search/results.html?imageID=hmwv16>



Grand Canyon, Arizona

<http://www.earthscienceworld.org/imagebank/search/results.html?imageID=hmw16>

Originally Horizontal



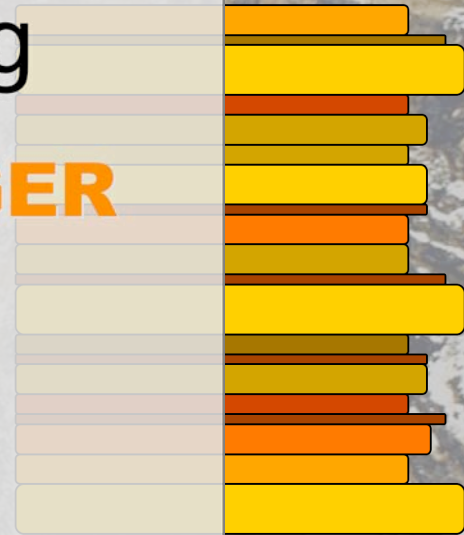
Grand Canyon, Arizona
<http://www.earthscienceworld.org/imagebank/search/results.html?imageID=hmw16>

**Originally
Horizontal**

Timing

YOUNGER

OLDER



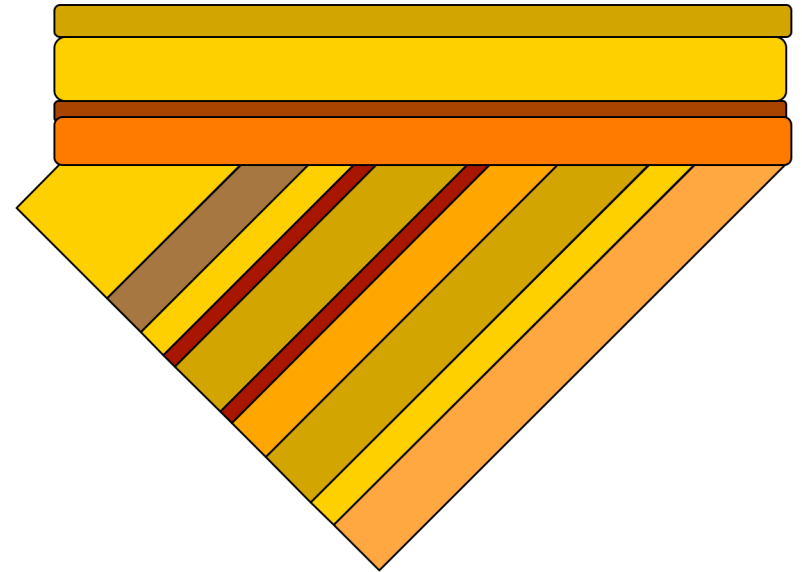




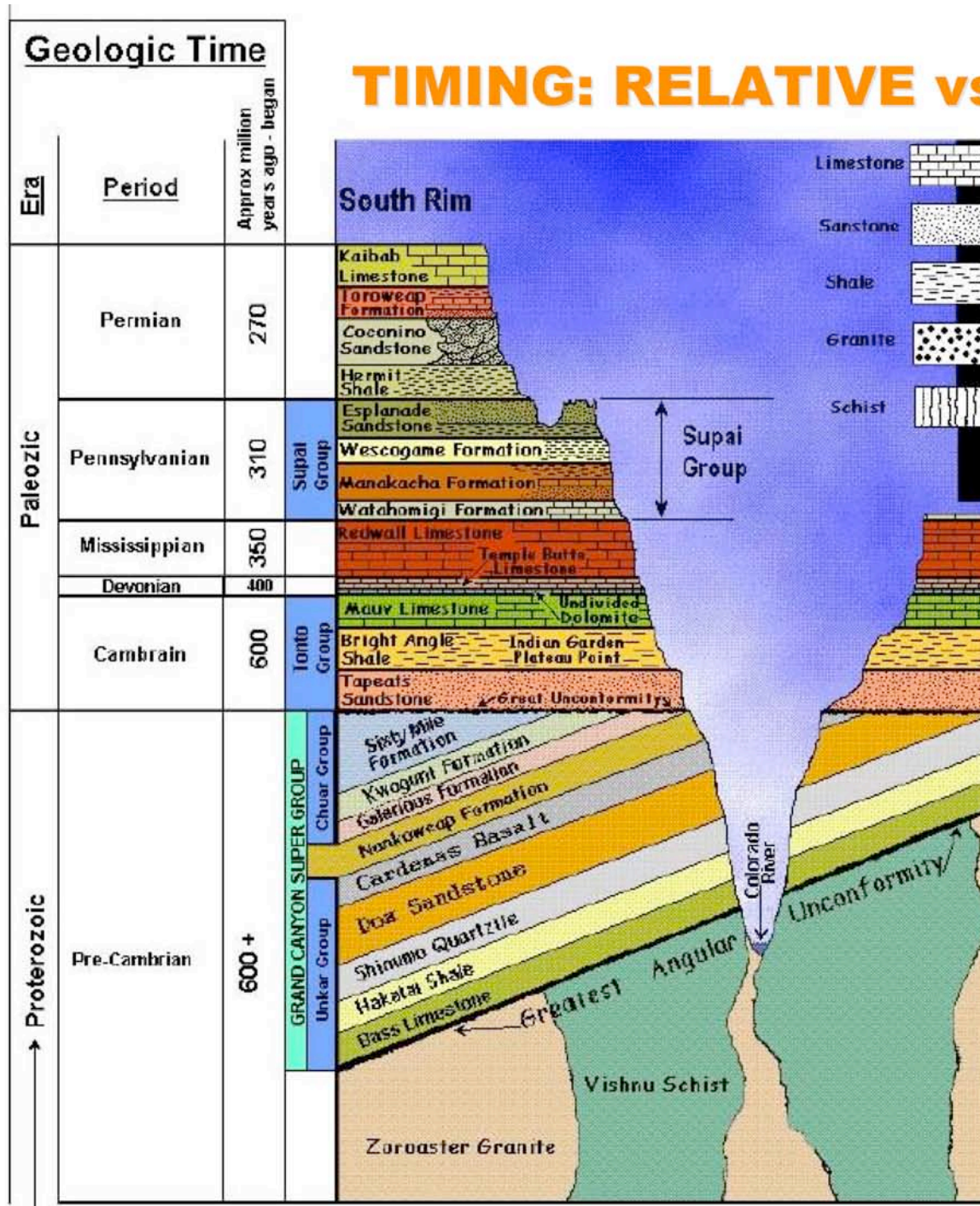
Olympic Coast, Washington: 4th Beach near Kalaloch
<http://patti.tensegrity.net/album/hoh/images/unconformity.jpg>



Unconformity



TIMING: RELATIVE vs. ABSOLUTE



270 Million Years Old

YOUNGER



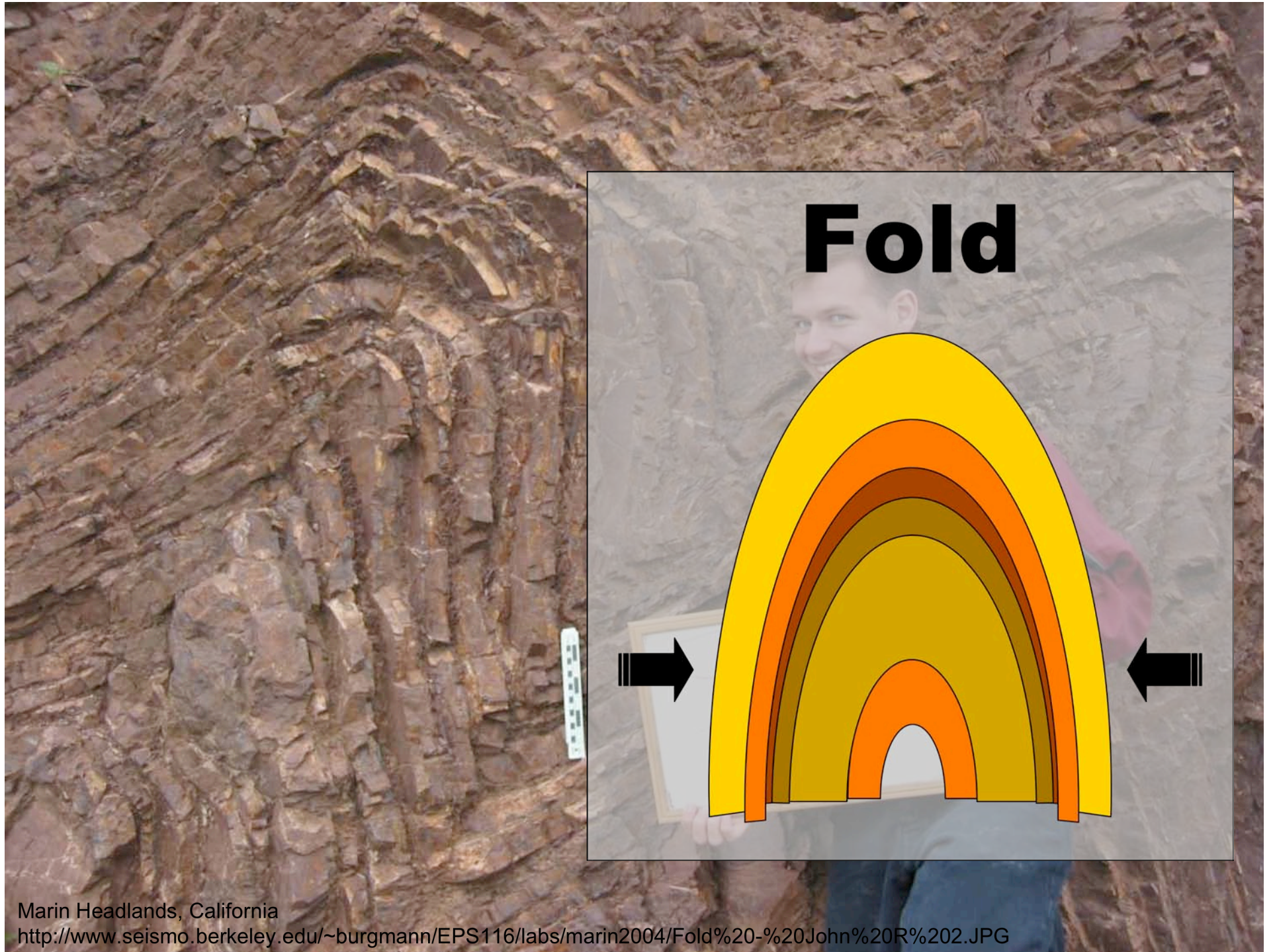
OLDER

600+ Million Years Old



Marin Headlands, California

<http://www.seismo.berkeley.edu/~burgmann/EPS116/labs/marin2004/Fold%20-%20John%20R%202.JPG>



Marin Headlands, California

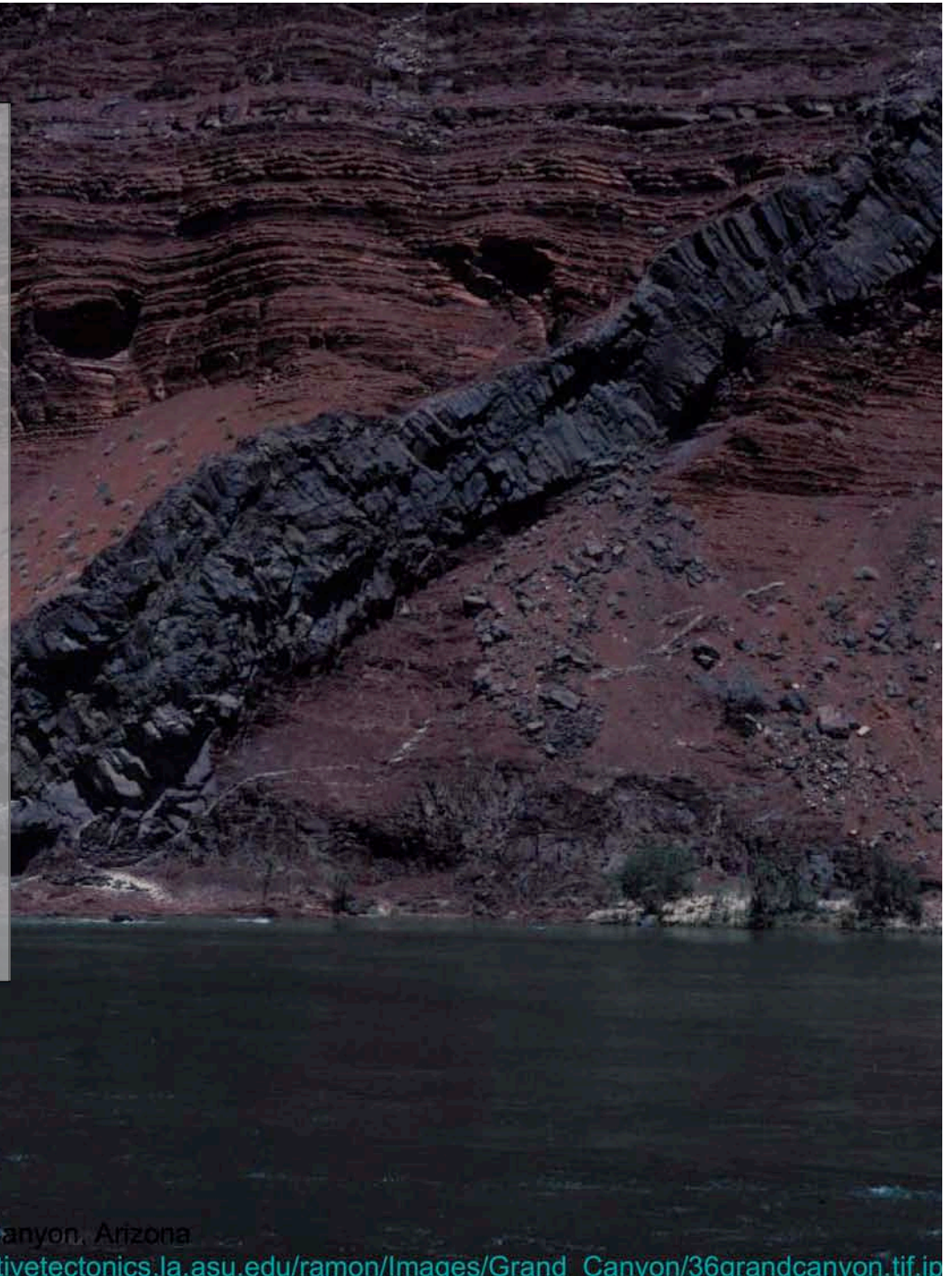
<http://www.seismo.berkeley.edu/~burgmann/EPS116/labs/marin2004/Fold%20-%20John%20R%202.JPG>



Grand Canyon, Arizona

http://activetectonics.la.asu.edu/ramon/Images/Grand_Canyon/36grandcanyon.tif

Cross Cutting



Grand Canyon, Arizona

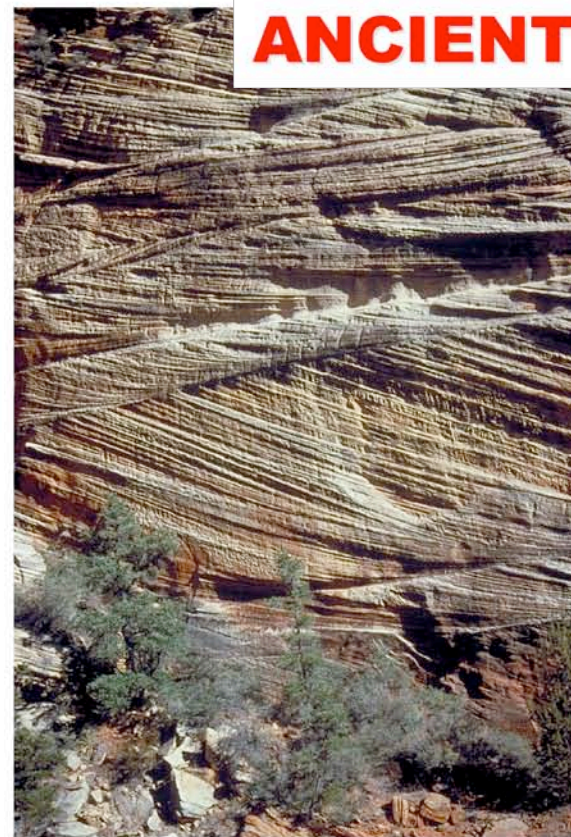
http://activetectonics.la.asu.edu/ramon/Images/Grand_Canyon/36grandcanyon.tif

PRESENT



Death Valley, CA
AGI Image Bank photo ha45z2

ANCIENT

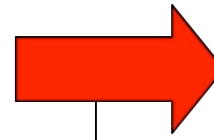


Zion, Utah
AGI Image Bank photo ha45jb

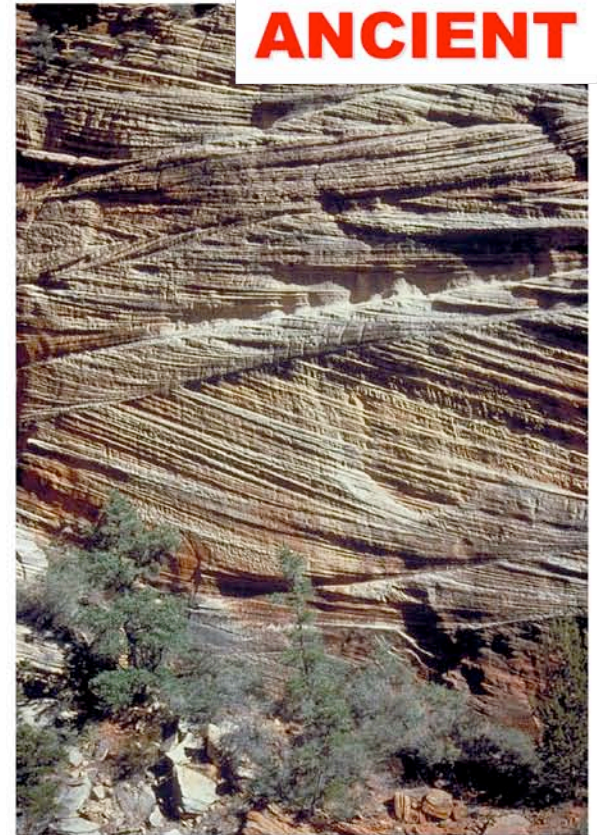
PRESENT



Death Valley, CA
AGI Image Bank photo ha45z2

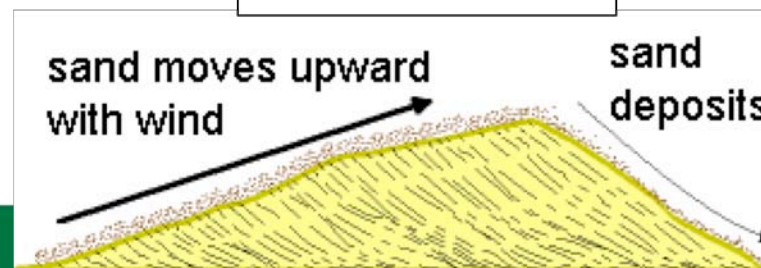


ANCIENT



Zion, Utah
AGI Image Bank photo ha45jb

PROCESS



PRESENT



Death Valley, CA
AGI Image Bank photo ha45z2

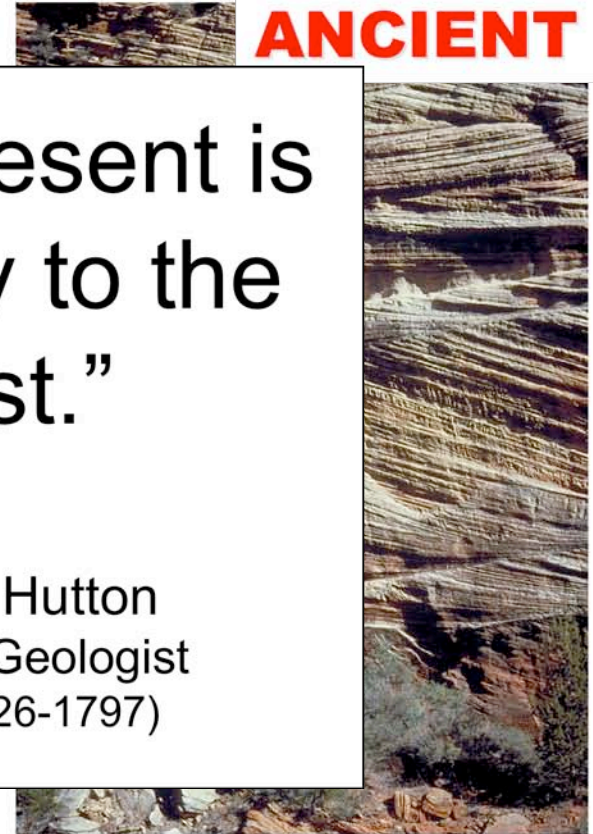


<http://www.physicalgeography.net/fundamentals/10c.html>

“The present is the key to the past.”

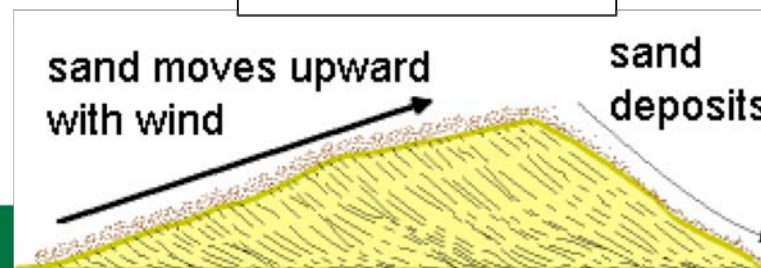
James Hutton
Famous Geologist
(lived 1726-1797)

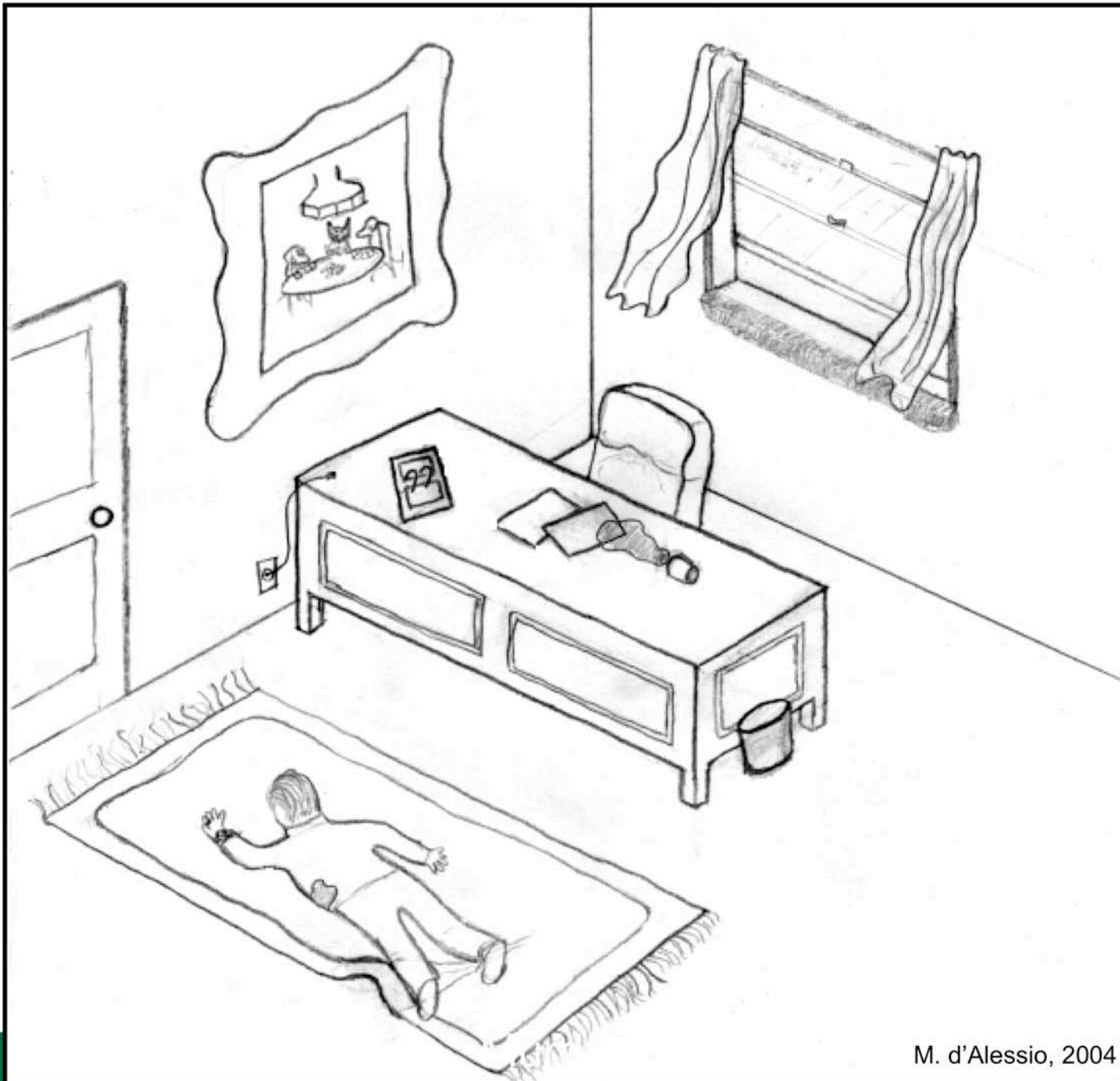
ANCIENT



Zion, Utah
AGI Image Bank photo ha45jb

PROCESS





M. d'Alessio, 2004