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Subject: week 1 email #1: OLLI: EARTH CLIMATE: WEEK 1 follow up; week 2]  
 From: pebelanger@glassdesignresources.com  
 Date: Mon, Sep 22, 2014 6:18 pm  
 To: "Paul Belanger" <pebelanger@glassdesignresources.com>  
 Attach: clip0003.jpg  
 SkepticalScienceHandbook.pdf  
 Atlantic and missing heat Science-2014-Kintisch-860-1.pdf

Subject: OLLI: EARTH CLIMATE: WEEK 1 follow up; week 2  
 From: <pebelanger@glassdesignresources.com>  
 Date: Sat, September 20, 2014 12:30 pm

OLLI week 1 [http://denverclimatestudygroup.com/?page\\_id=350](http://denverclimatestudygroup.com/?page_id=350)  
 UPDATED THE SYLLABUS AND FINAL SLIDES UPLOADED:

[Belanger OLLI week1 final slides](#) – PDF, 1.4 MB

[Belanger OLLI week1 final](#) – PPTX, 5 MB

### SUPPLEMENTAL:

after video 1:

supplemental sites we did not visit in class but leave it to your option:

<http://climate.nasa.gov/causes/>

<http://www.metoffice.gov.uk/climate-guide/climate>

\*\*\*\*\* **Skeptical Science handbook**\*\*\*\*\*

**see first attachment**

\*\*\*\*\* **Global warming pause explained; more on ocean warming**\*\*\*\*\*

**see 2nd attachment**

This article link below (thanks to Martin for passing it on) leads to the **2nd attachment** from Science that I pulled up: <http://thinkprogress.org/climate/2014/08/25/3475168/global-warming-atlantic/> and this one from Skeptical Science: <http://www.abc.net.au/science/articles/2014/09/16/4088609.htm>  
 quote:

"In the USA, the Wall Street Journal wrote, "temperatures have been flat for 15 years - nobody can properly explain it.

Another newspaper from the same stable, the UK Daily Mail wrote "global warming 'pause' may last 20 more years, and Arctic sea ice has already started to recover". Both of these statements are very reassuring, but unfortunately, very very wrong.

With regard to this 'pause', there are two major claims made by those who deny the science of climate change.

The first **claim** is that the climate is actually cooling - not warming. **This is incorrect.**

The second **claim** is that after some previous warming, the global climate is now constant, and neither warming nor cooling. In other words, that the climate is in a kind of holding pattern, or hiatus. **This is also incorrect."**

....read more at link above; on Tuesday I will assert earth history reasons as to why I am so certain == the Earth has NOT YET equilibrated - pauses mean nothing - it's where the Earth is going and this will have an ultimate impact of weather, food production, sea level rise and sustainability of our way of life as we know it. BUT, don't despair, during week 6, 7 and 8 we will look at potential real solution and discuss as to whether it's in our hands or not

In class I mentioned a prolonged La Nina. I still contend that it contributes. What's pushed westward "piles" up in the west and has to be "forced" down to some extent. I say some extent because it's less dense water and thus has density effects to overcome - but that is what leads to warming of deeper waters to 700m. I've seen posts that banter: first it's the Pacific, now it's the Atlantic - and ridiculing/casting doubt to confuse the public. The bottom line is that the heat is going in the oceans. Water has a higher heat capacity, and when removed from contact with the air it remains insulated.

Also see: SOS - science on a sphere. see [http://sos.noaa.gov/What\\_is\\_SOS/index.html](http://sos.noaa.gov/What_is_SOS/index.html)

Then click on datasets - lots of interesting stuff (and not all on climate) -

**But with respect to ocean warming**, and remember it's 70% of the earth surface see datasets in oceans: <http://sos.noaa.gov/Datasets/list.php?category=Ocean>

and each has Media Preview, **climate change?**<http://www.skepticalscience.com/cosmic-rays-and-global-warming.htm>

The galactic cosmic ray (GCR) warming hypothesis is based on the premise that GCRs can "seed" clouds, and clouds reflect sunlight. So if there are fewer GCRs reaching Earth (because a strong solar magnetic field is deflecting them away), the hypothesis says there will be fewer clouds, more sunlight reaching the Earth's surface, and thus more global warming.

read further at link above

\*\*\*\*\* **Video lectures: David Archer and HHMI (DVD AVAIL FROM ME)**\*\*\*\*\*

from Martin: online course by David Archer:

<http://forecast.uchicago.edu/lectures.html>

also HHMI:

**Summary**

Has Earth changed over deep time? How did Earth shape life and life shape Earth? What does Earth's climate in the distant past tell us about the future?

<http://www.hhmi.org/biointeractive/changing-planet-past-present-future>

<http://media.hhmi.org/hl/12Lect1.html>



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