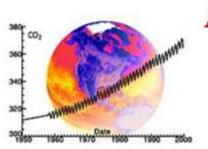
Climate Change and Transition Studies



An Interactive Online Learning Initiative

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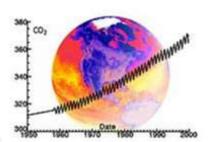
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Timothy C. Weiskel

Research Director, Cambridge Climate Research Associates

Climate Science for Human Survival

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"Where Can We Turn To Learn?"

An introduction to online learning about climate change and transition studies

12 July 2018

1. The nature of "climate" and "transition studies"

- The nature of "climate" and "transition studies"
- 2. The need for informed global leadership with understanding and vision of our circumstance.

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- 5. Using the "Transition-Studies" weblog as a "portal" to begin your research.

1) The nature of "climate" and "transition studies"

First question.... What is the difference between weather and climate?

We all experience weather....

Worldwide Record Breaking Floods in China and Canada (May 2017)

Posted on May 10, 2017 | Leave a comment | Edit



We all experience weather....and sometimes extreme weather...



Is a drought an example of weather or of climate?

Somali Drought Puts Millions of Lives at Risk

Posted on September 10, 2014 | Leave a comment | Edit



China: Yangtze River floods as first yellow alert of the year is issued

Posted on July 12, 2018 | Leave a comment



South China Morning Post

Published on Jul 11, 2018

https://environmentaljusticetv.wordpress.com/2018/07/12/chinayangtze-river-floods-as-first-yellow-alert-of-the-year-is-issued/

Apocalyptic flooding collapses buildings in China – June 24, 2018

Posted on July 12, 2018 | Leave a comment



Miscelánea Noticias

Published on Jun 25, 2018

https://environmentaljusticetv.wordpress.com/2018/07/12/apocalyptic -flooding-collapses-buildings-in-china-june-24-2018/

Power supplies and internet connections disrupted after floods affect China

Posted on July 12, 2018 | Leave a comment



WION

Published on Jul 10, 2018

https://environmentaljusticetv.wordpress.com/2018/07/12/power-supplies-and-internet-connections-disrupted-after-floods-affect-china/

Japan Flooding and China Preperations

Posted on July 12, 2018 | Leave a comment



News Theories

Published on Jul 11, 2018

https://environmentaljusticetv.wordpress.com/2018/07/12/japan-flooding-and-china-preperations/

Are China floods a result of "extreme weather" or a changing climate?



https://environmentaljusticetv.wordpress.com/2017/05/14/jennifer-turner-discusses-chinas-flood-season-2/

The Difference Between...

Weather and Climate has to do with:

 Scale – (climate is global, not local, think of regional changes – not just local weather) and

The Difference Between...

Weather and Climate has to do with:

- Scale (climate is global, not local, think of regional changes – not just local weather) and
- 2) Time (climate involves changes NOT from season-to-season, or year to year BUT rather over decades, centuries and millennia... scientists used to think this was remote, but maybe not....)

To understand climate you need to think on a Global Scale

(Consider the annual cycling of atmospheric carbon around the world)

NASA | A Year in the Life of Earth's CO2 Posted on February 17, 2017 | Leave a comment | Edit NASA | A Year in the Life of Earth's CO2 NASA Goddard

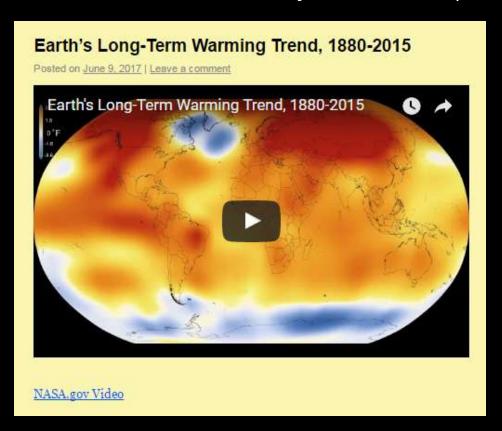
Click to graphic data. View and study patterns of atmospheric carbon circulation in one year.



https://environmentaljusticetv.wordpress.com/2017/02/17/nasa-a-year-in-the-life-of-earths-co2-4/

To understand climate you need to think over decades, centuries and millennia

(Consider the evolution of average temperature across he world over the last 135 years or so...)



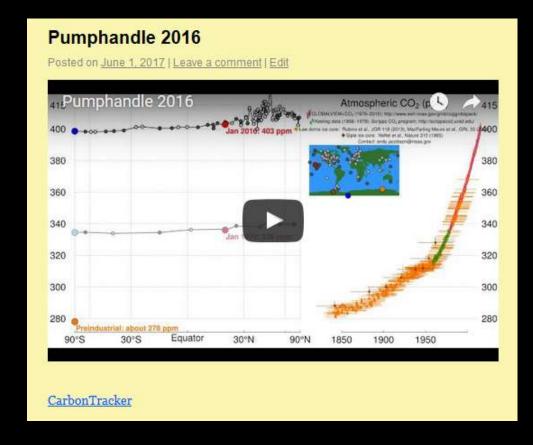
Click to graphic data. View and study the pattern of temperature change over time and over specific areas.

https://environmentaljusticetv.wordpress.com/2017/06/09/154 -earths-long-term-warming-trend-1880-2015/

To understand climate you need to think over tens and hundreds of millennia...

(Consider the evolution of the parts-per-million (ppm) of CO2 in the atmosphere over the last 800,000 years.

Click to graphic data. View and study patterns of atmospheric carbon concentrations in ppm over the last 800,000 years.

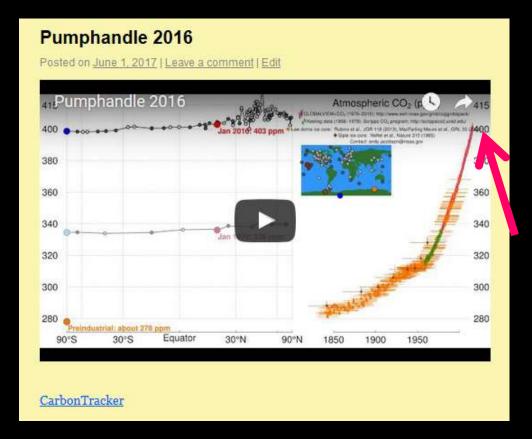


https://environmentaljusticetv.wordpress.com/2017/06/01/p umphandle-2016-3/

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Click to graphic data. View and study patterns of atmospheric carbon concentrations in ppm over the last 800,000 years.



Where are we today in terms of the historical pattern of carbon emissions in Earth's atmosphere?

https://environmentaljusticetv.wordpress.com/2017/06/01/p umphandle-2016-3/

Sea-level has changed with the changing ice ages in the past.



https://environmentaljusticetv.wordpress.com/2014/05/29/earthunder-water-worldwide-flooding-sea-level-rise-slr/

Is sea level changing now?



If so, how can we tell?



https://environmentaljusticetv.wordpress.com/2014/05/29/earth-under-water-worldwide-flooding-sea-level-rise-slr/

Watch the full video to see some of the implications we will be studying...



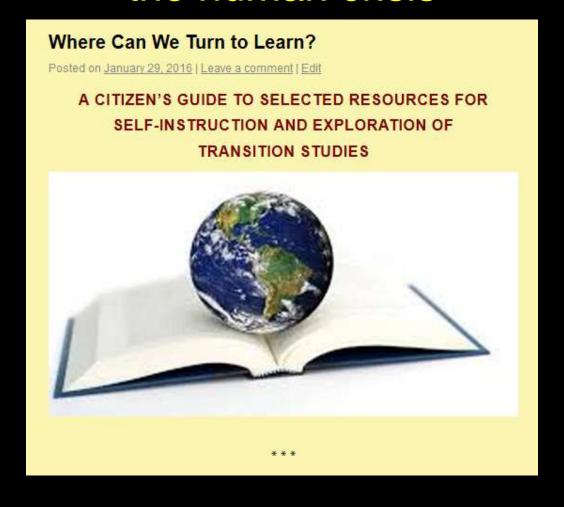
https://environmentaljusticetv.wordpress.com/2014/05/29/earthunder-water-worldwide-flooding-sea-level-rise-slr/

Some regions of the world with high population densities close to the coast are a "catastrophe coming at us…"



https://environmentaljusticetv.wordpress.com/2014/05/29/earthunder-water-worldwide-flooding-sea-level-rise-slr/

Your research and writing in this course can help the public and policy-makers understand the seriousness of the human crisis



With all the anxiety about climate change, why bother with "Transition Studies?"



https://environmentaljusticetv.wordpress.com/about/

We will need to make the "transition" beyond fossil fuels simply to survive as a civilized human community.



https://environmentaljusticetv.wordpress.com/about/

- The nature of "climate" and "transition studies"
- 2. The need for informed global leadership with understanding and vision of our circumstance.

The human community now needs fully informed *global leadership* with understanding and vision to make the transition to a sustainable future....



https://

Climate Goals Pledged by China and the U.S.

mate-

In some cases, this vision and leadership was achieved, for a while at least

In Climate Deal With China, Obama May Set 2016 Theme

Posted on November 13, 2014 | Leave a comment | Edit





mate-

In some cases, this vision and leadership was achieved, for a while at least BUT, as we have seen...

In Climate Deal With China, Obama May Set 2016 Theme

Posted on November 13, 2014 | Leave a comment | Edit





mate-

This "vision" and "leadership" can be quickly reversed...!



This "vision" and "leadership" can be quickly reversed...!



This will be a catastrophe for humankind unless new leaders, like yourselves, start to make an important difference....



You are in a very powerful position if you can learn how to mobilize and present vitally important scientific information...



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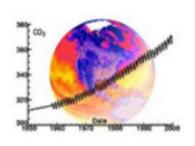


To learn and practice these skills should be one of your goals in this course.



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The course "Home Page" online.

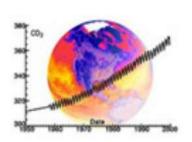


Climate Change and Transition Studies

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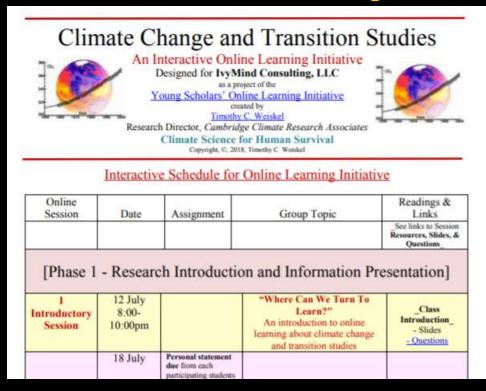
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http://ecoethics.net/YSOLI/201807-Climate/

The course Time Table of meetings & assignments



http://ecoethics.net/YSOLI/201807-Climate/2018-Schedule.pdf

Course Session Sequence



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"Where Can We Turn To Learn?"

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12 July 2018

Climate Change and Transition Studies

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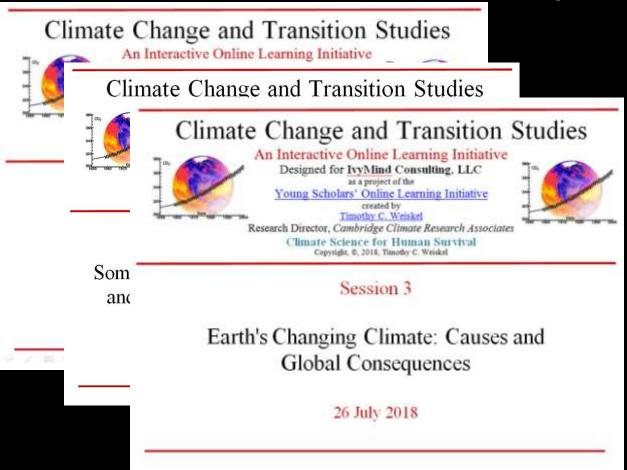
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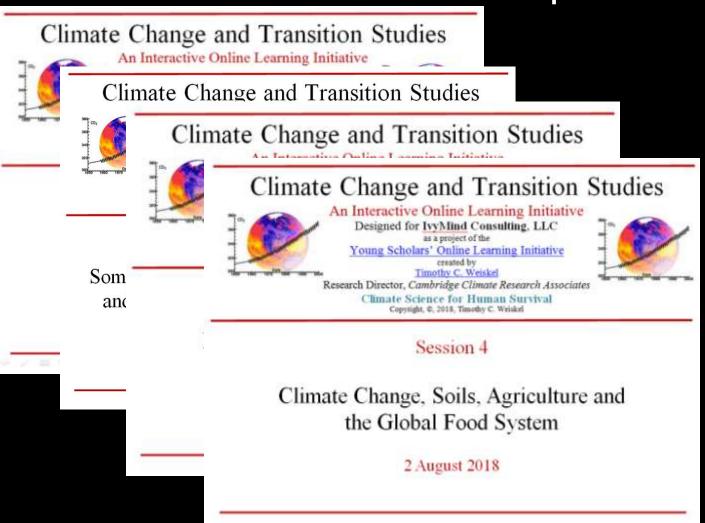
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Session 2

Some Techniques and Best Practices for Sourcing and Properly Citing Climate Science Research

19 July 2018







You will need to learn to locate and

Acquire reliable sources

- Acquire reliable sources
- Store those sources in electronic form (permanent URLs or "hardcopy")

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- Retrieve those sources in a dependable and replicated manner and learn to

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- Store those sources in electronic form (permanent URLs or "hardcopy")
- Retrieve those sources in a dependable and replicated manner and learn to
- Present the data in a useful research report
 Your goal is to become an excellent
 "knowledge broker" for the topic you choose

5. Using the "Transition-Studies" online weblog to begin your research.

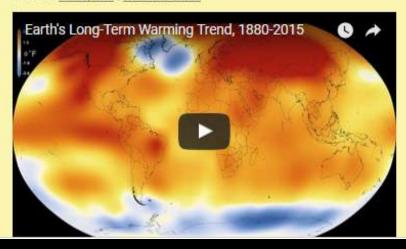
Transition Studies

Exploring the Transition to a Just and Sustainable Future on a Finite Planet



Earth's Long-Term Warming Trend, 1880-2015

Posted on June 9, 2017 | Leave a comment



WELCOME

Welcome to <u>Transition Studies</u>. To prosper for very much longer on the changing Earth humankind will need to move beyond its current fossil-fueled civilization toward one that is sustained on recycled materials and renewable energy. This is not a trivial shift. It will require a major transition in all aspects of our lives.

This weblog explores the transition to a sustainable future on our finite planet. It provides links to current news, key documents from government sources and non-governmental organizations, as well as video documentaries about climate change, environmental ethics and environmental justice concerns.

The links are listed here to be used in whatever manner they may be helpful in public information campaigns, course preparation, teaching, letter-writing, lectures, class presentations, policy discussions, article writing, civic or Congressional hearings and citizen action campaigns, etc. For further information on this blog see:

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Transition Studies

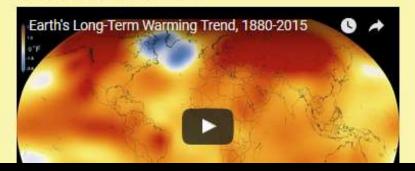
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Ear Posts



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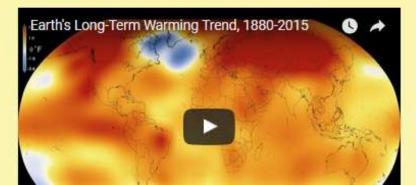
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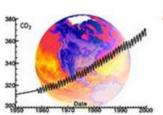


In today's session, then, we touched upon these topics....

- 1. The nature of "climate" and "transition studies"
- 2. The need for informed global leadership with understanding and vision of our circumstance.
- 3. An overview of the online course structure and sequence
- 4. Steps in composing a research report: information acquisition, storage, retrieval, report presentation.
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Next Week.... we will look at:

Climate Change and Transition Studies



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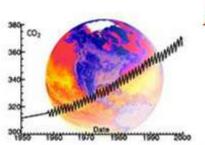
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Some Techniques and Best Practices for Sourcing and Properly Citing Climate Science Research

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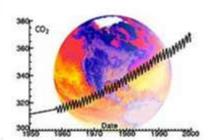
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"Where Can We Turn To Learn?"

An introduction to online learning about climate change and transition studies

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Where can you turn to learn? You can begin by exploring the weblog: **Transition-Studies.net**

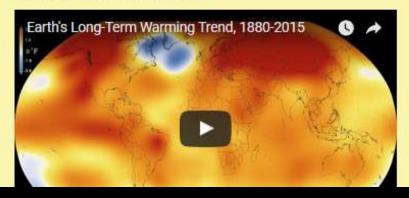
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