

Thinking Straight Tuesday, May 30

Morning Session

Critical Reasoning WS 9-1: Review of Assignment, Expertise, Review of for Quiz.

Afternoon Session beginning at 1 pm

Ethical Reasoning. Discussion of issues raised in assignment due, Discussion of your approach to ethical reasoning. Take home ethics exam. Available. Critical Exchange group meeting

Arguments on global warming

Jenna, Will, David, Kelly, David, Ashley, MC

- (1) Release of sequestered carbon dioxide causes global warming (the greenhouse effect)
- (2) Humans are releasing sequestered carbon dioxide (by burning fossil fuels, etc.)

∴ Humans are causing global warming (the greenhouse effect)

Criticism of *Global Warming Theory*

First Stage Criticism

The Initial Theory Being Evaluated

Greenhouse gas emissions cause global warming

Anthropogenic Theory: Human beings are generating (increased) green house gases

Plausible Alternative Theory

El Nino-La Nina oscillation theory

Sun spot theory

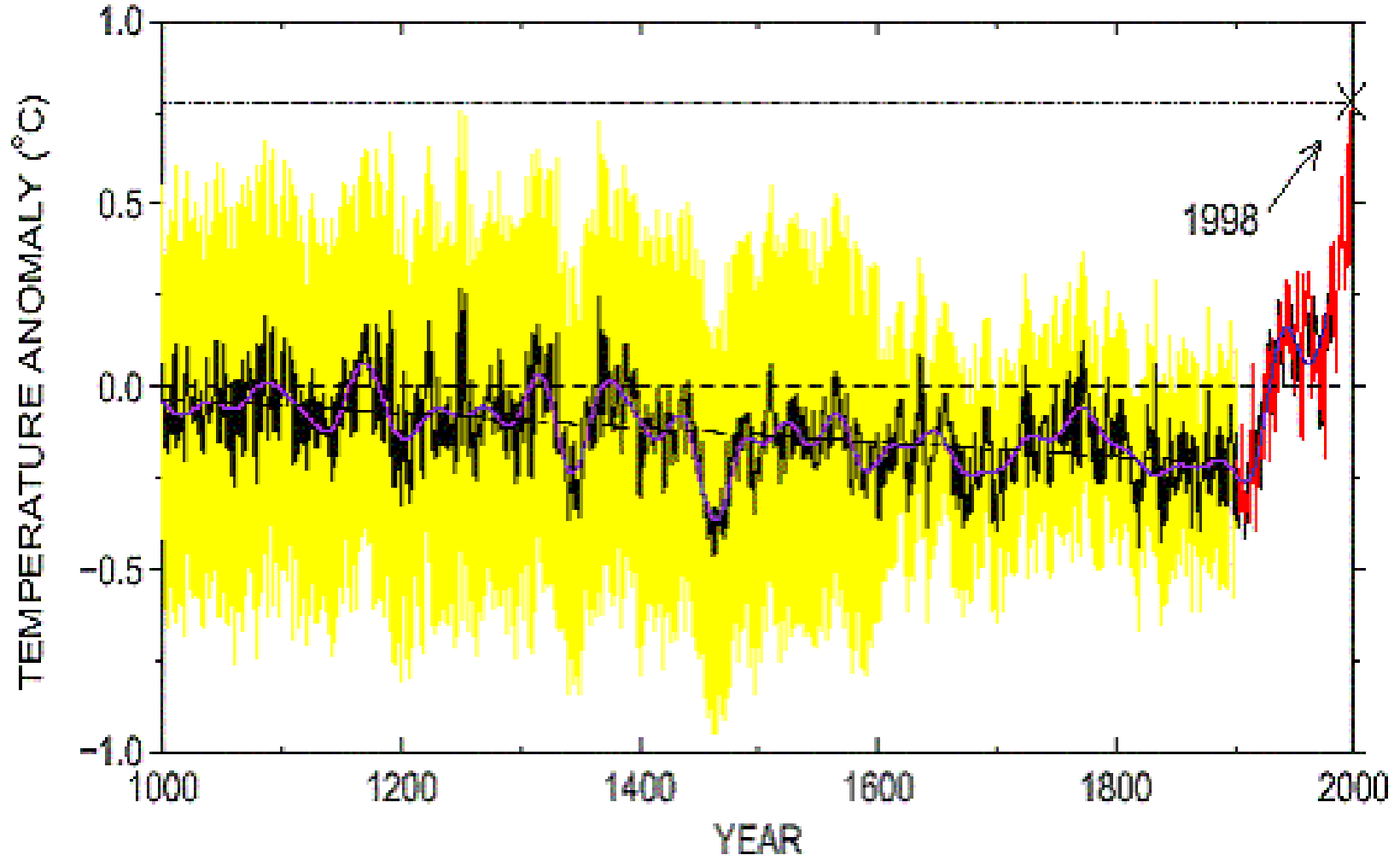
Regularities Being Explained

Global warming phenomena

Regularities Predicted by Initial Theory That Might Not Occur

Atmospheric carbon dioxide levels increases are followed by temperature increases

Hockey stick Model, Michael Mann

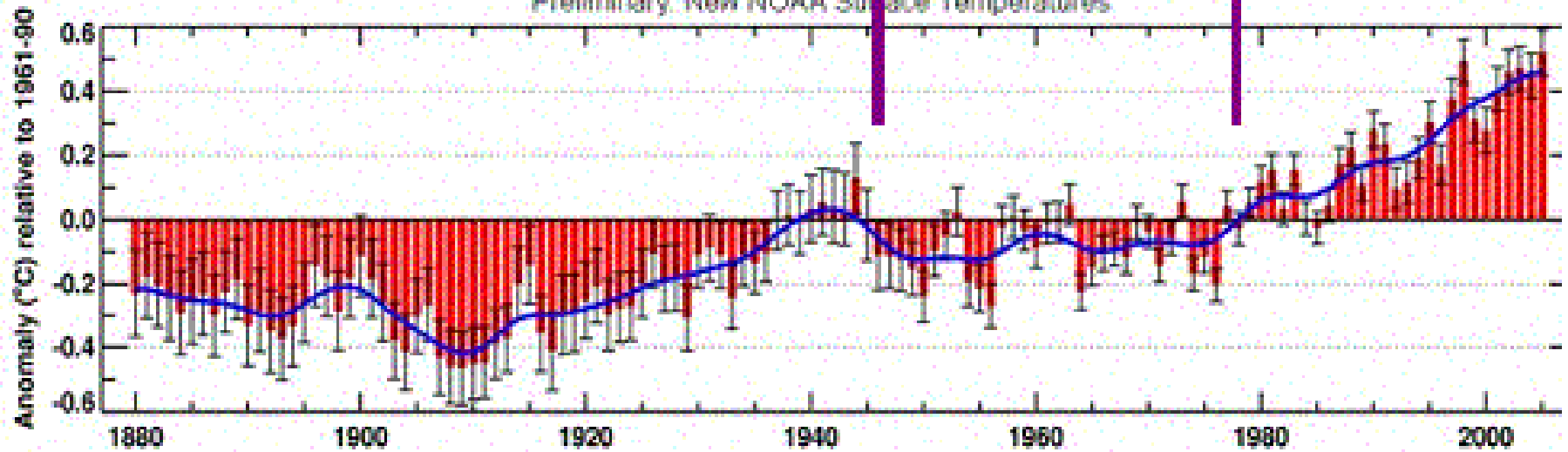


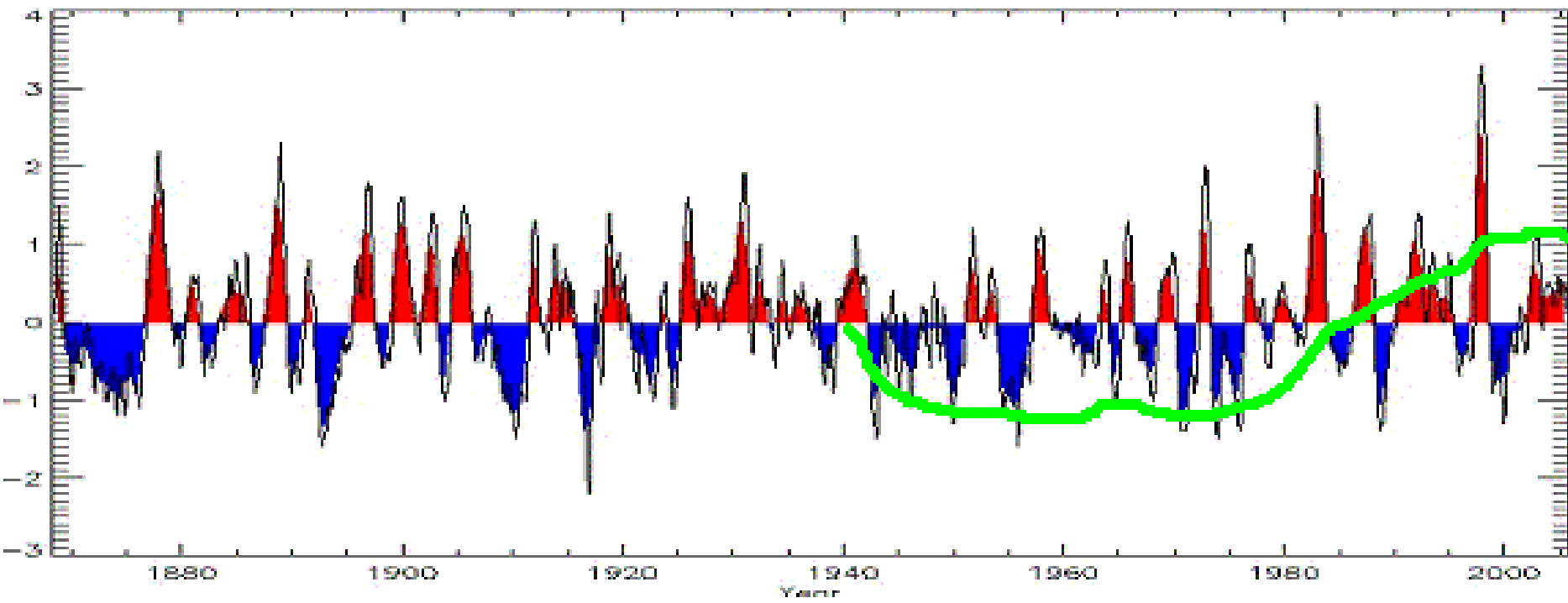
The graph above is a temperature reconstruction of the Northern Hemisphere by Michael Mann, Associate Professor, Departments of Meteorology and Geosciences, Penn State University. From Kristin Byrnes *Ponder the Maunder*

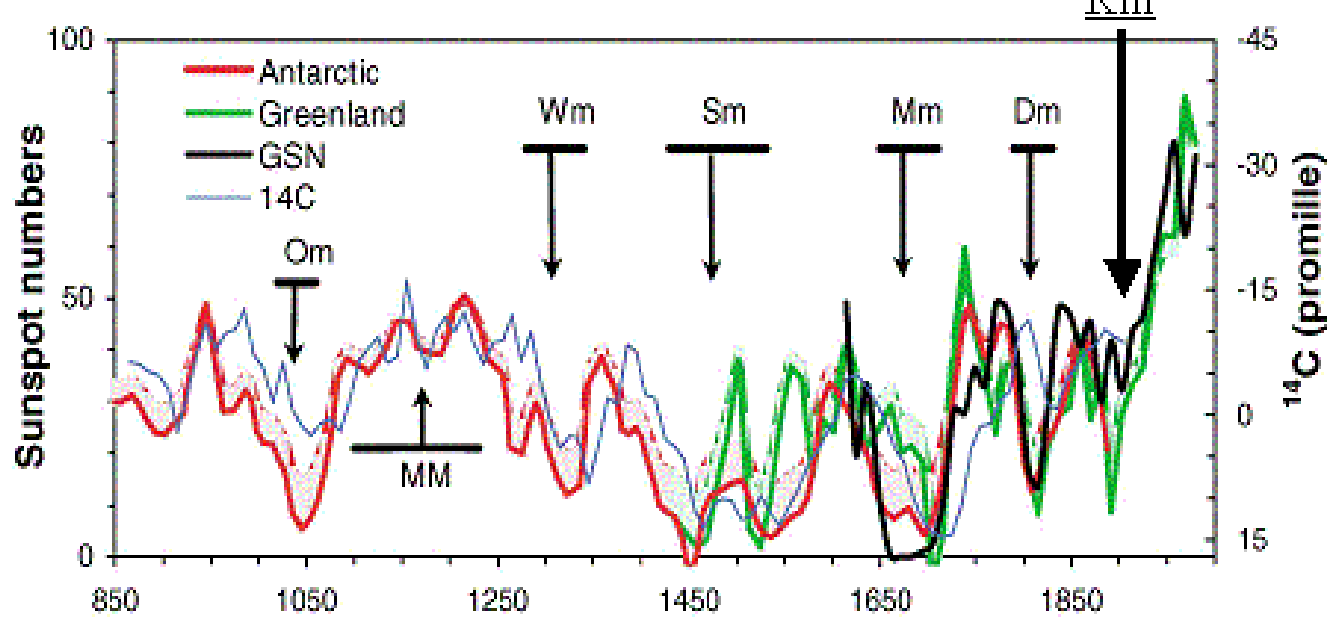
Period of anomalous cooling

Global Mean Temperature over Land & Ocean

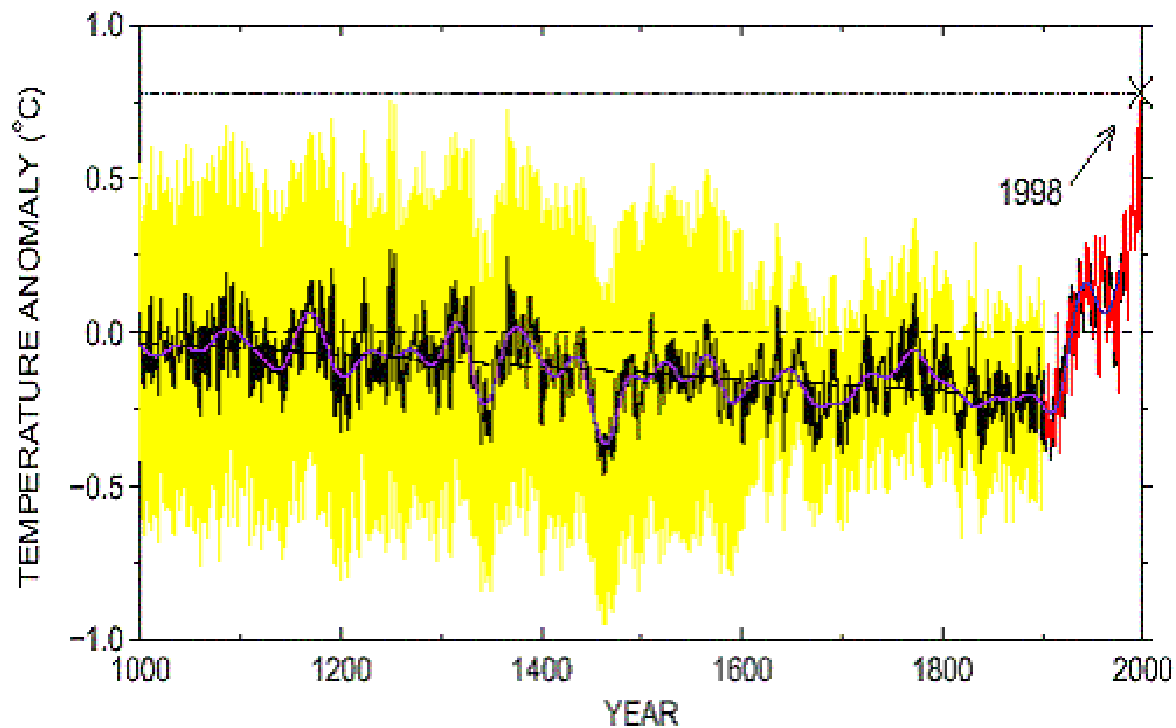
Preliminary: New NOAA Surface Temperatures



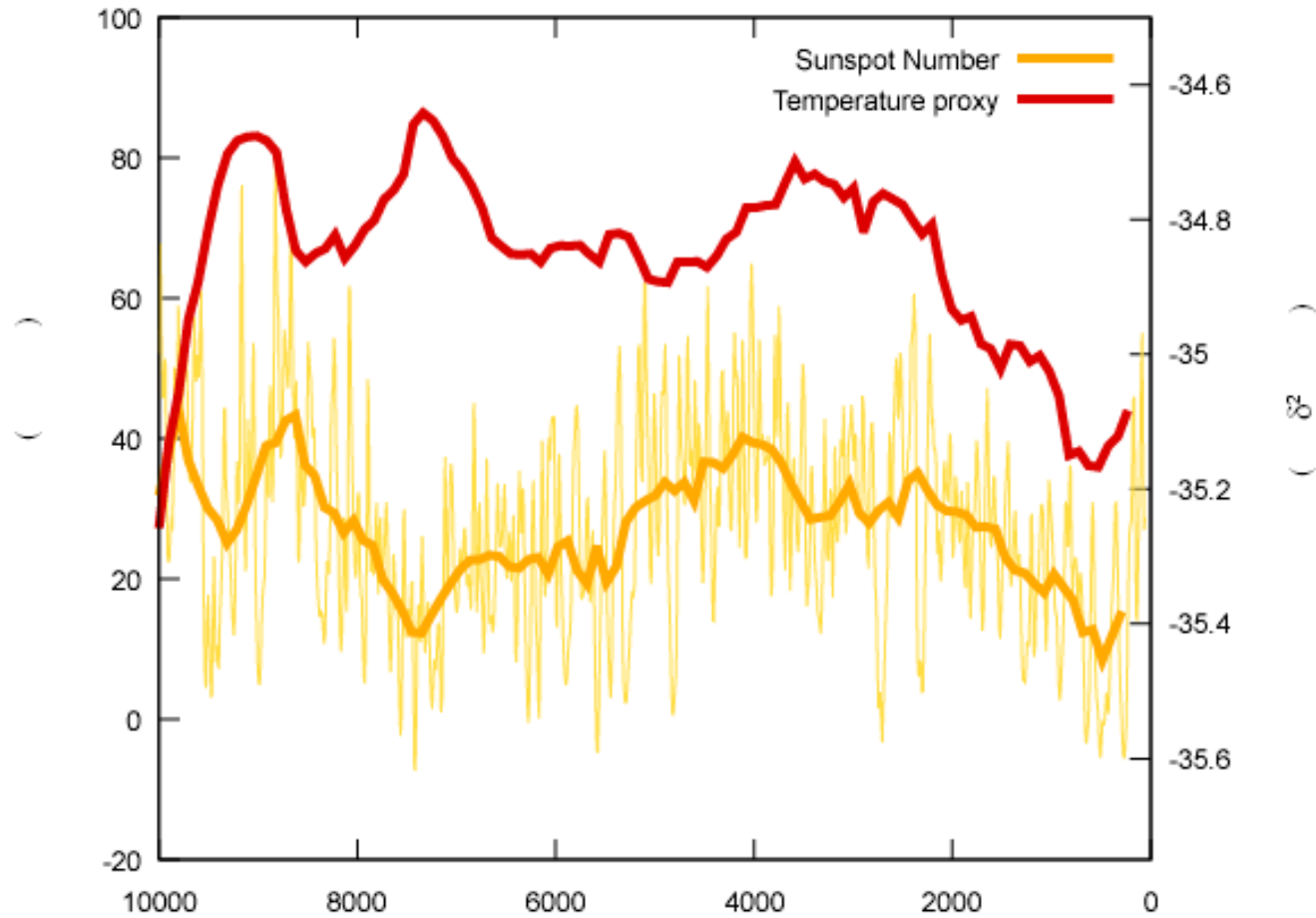




Correlation of sun spot activity and temperature



Sunspot Activity and Temperature



http://en.wikipedia.org/wiki/Solar_variation_theory#Solar_variation_theory

solar activity

<http://errortheory.blogspot.com/2008/04/ocean-oscillations-are-not-masking.html>

Goddard “An official Source”

<http://data.giss.nasa.gov/gistemp/2007/>

R2 analysis – A statistical Analysis Leads to D’Aleo

<http://www.globalwarming.org/node/1584>

Background on D’Aleo

http://www.sourcewatch.org/index.php?title=Joseph_D'Aleo

Critical site

<http://scienceandpublicpolicy.org/personnel.html>

http://en.wikipedia.org/wiki/Global_warming_controversy

http://en.wikipedia.org/wiki/Scientific_opinion_on_climate_change

http://en.wikipedia.org/wiki/Solar_variation_theory#Solar_variation_theory

Metastudies — meta arguments

Role of skepticism in science

Role of community vs. Group membership

That's All Folks