

Back To *Climate* Basics Again

Skepticism is the first step to Truth – D. Diderot

Albemarle County BOS

April 4, 2012

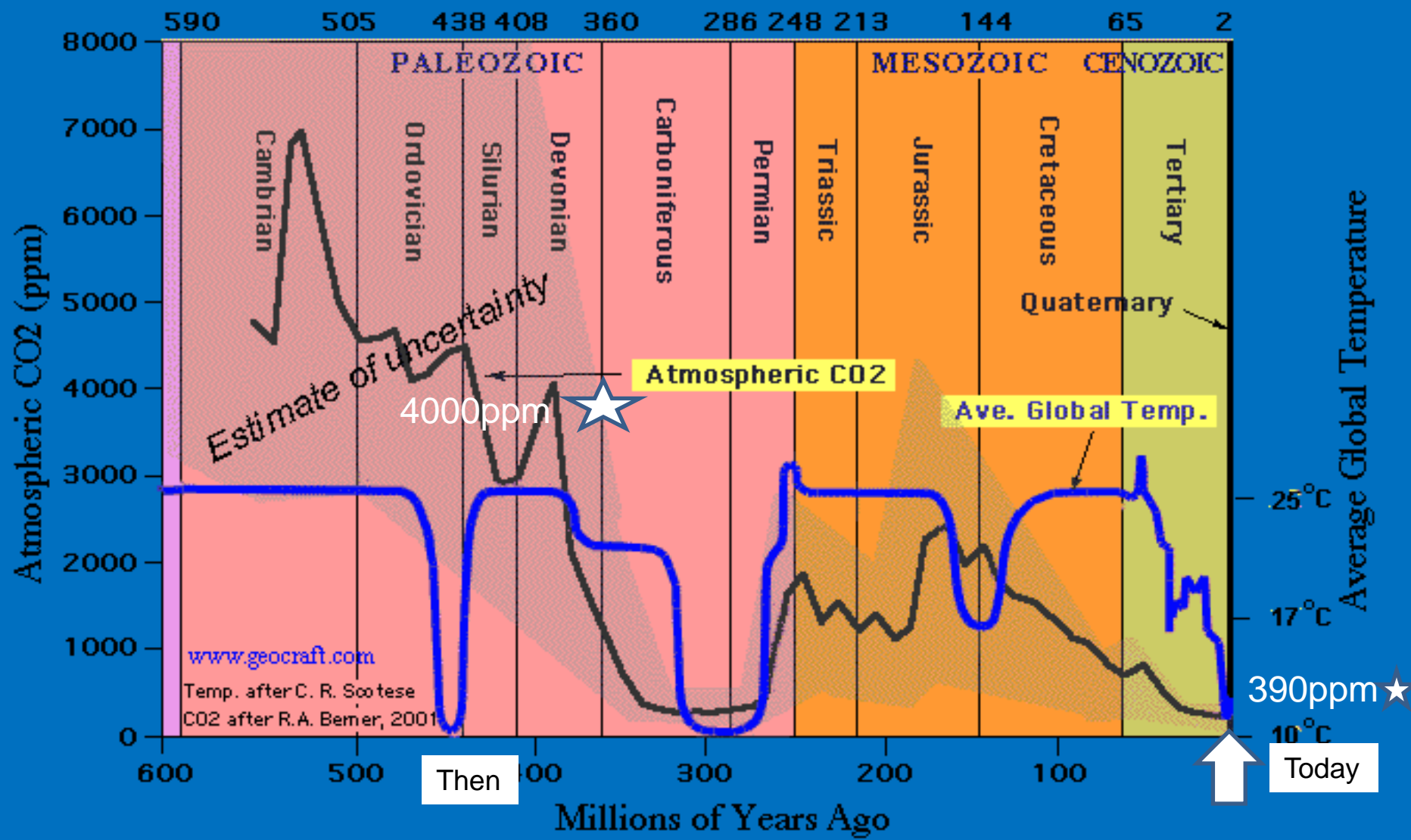
presentation

by

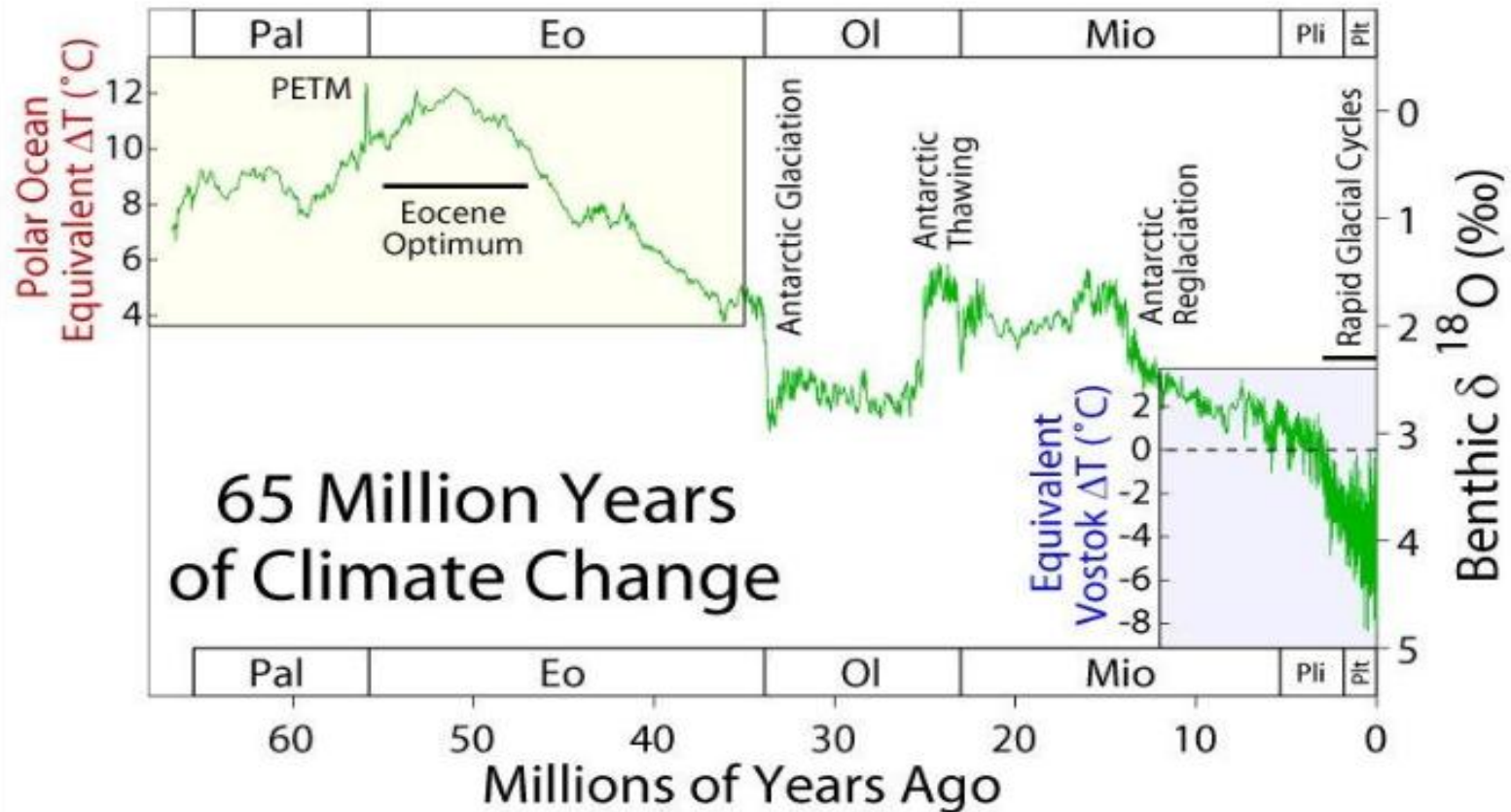
Charles Battig, MD

VA-Scientists and Engineers for Energy and
Environment

UVA: Why Quote CO2 Levels Back To Only A Few Thousand Years? CO2 Has Been Much Higher



50 Million Years Of *Cooling*

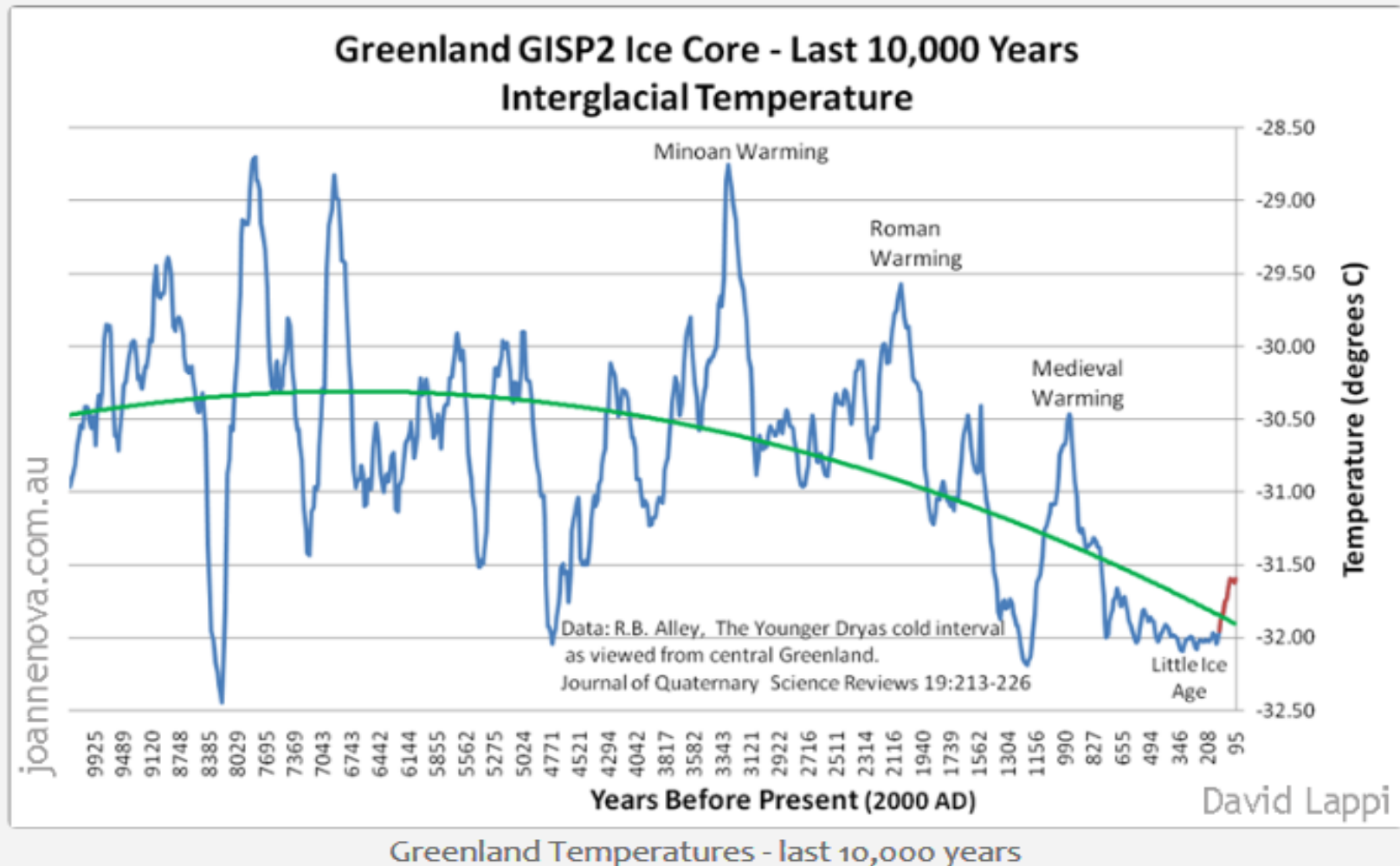


65 million years of global temperatures Image created by Robert A. Rohde / Global Warming Art

Image created by Robert A. Rohde / **Global Warming Art**

Last 10,000 Years Ice Core Data

We Are Cooling



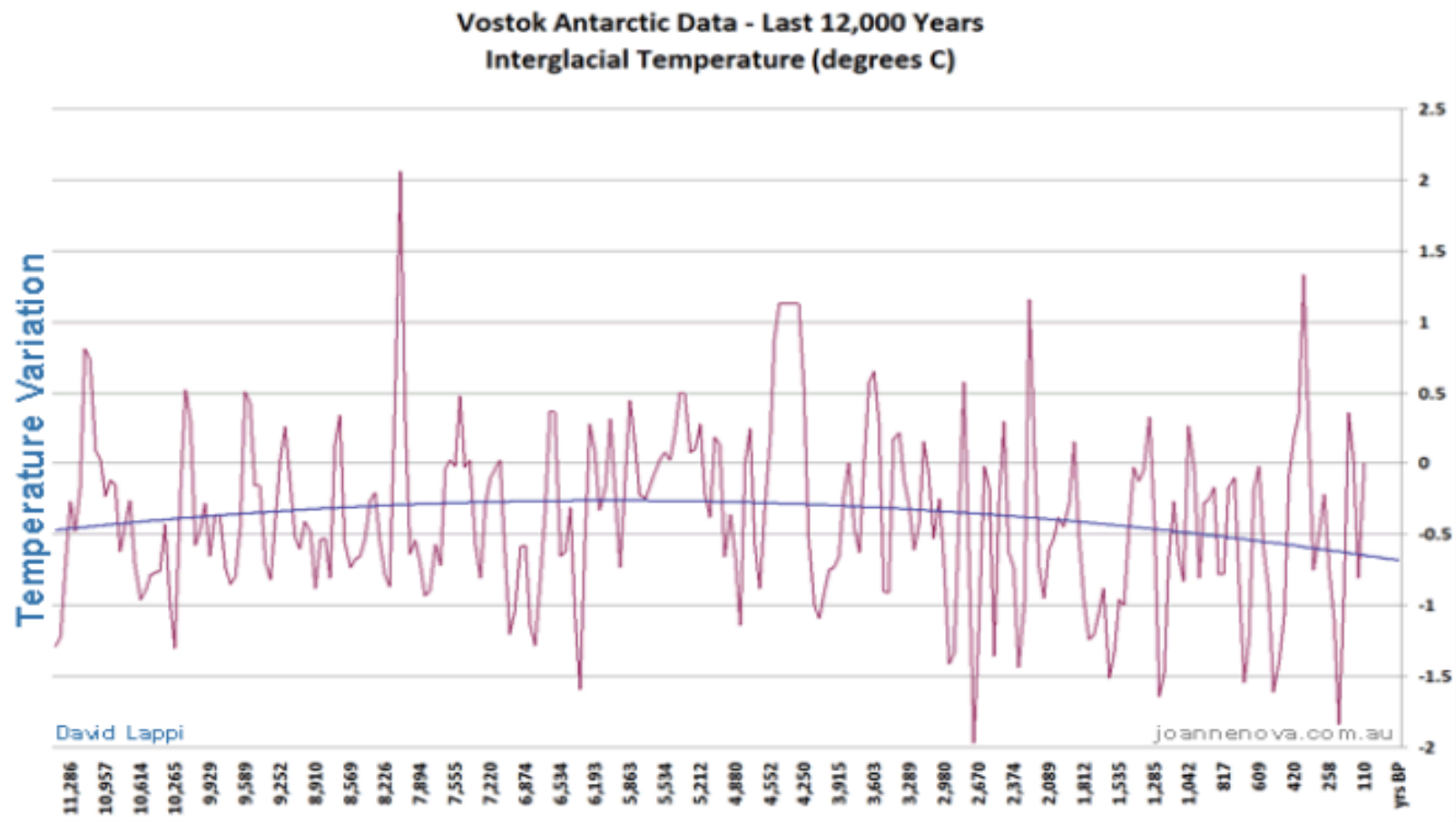
High variability of Greenland surface temperature over the past 4000 years estimated from trapped air in an ice core.

Geophysical Research Letters 38: 10.1029/2011GL049444.

- "there was another similarly warm period (-29.7°C) in the 1140s (Medieval Warm Period), indicating that the present decade is not outside the envelope of variability of the last 1000 years."
- "during two intervals (~ 1300 BP and ~ 3360 BP) centennial average temperatures were nearly 1.0°C warmer (-28.9°C) than the present decade."
- **Conclusion:** It has been warmer in Greenland before the presence of current levels of man-made CO_2

Antarctic Ice Core Data

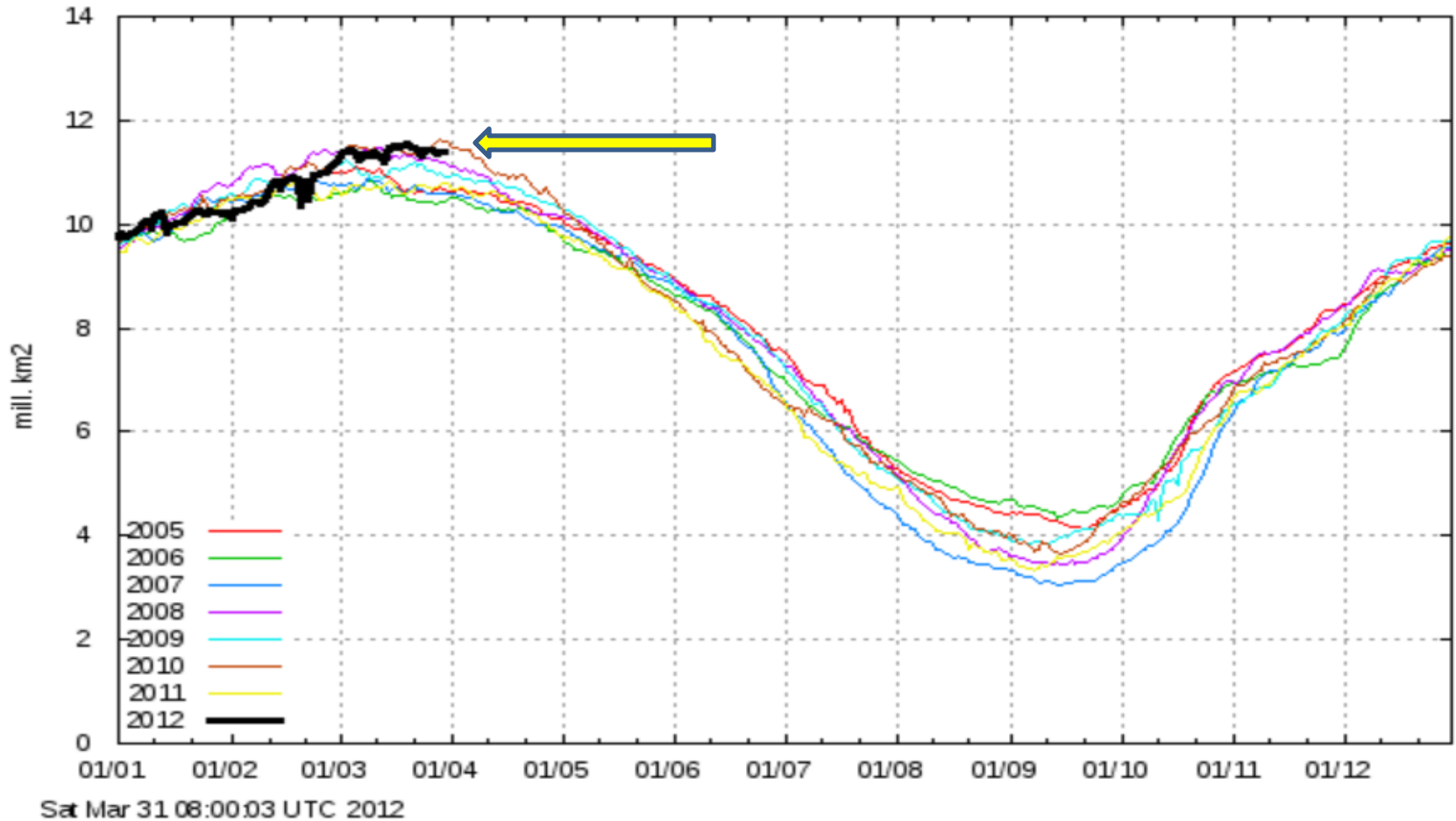
4,000 Plus Years Of *Cooling*



Vostok Antarctica, last 12,000 years

Arctic Sea Ice Extent March 2012 Is *High Average* (2005-2012)

Danish Meteorological Institute – Centre for Ocean and Ice



What Is The Question?

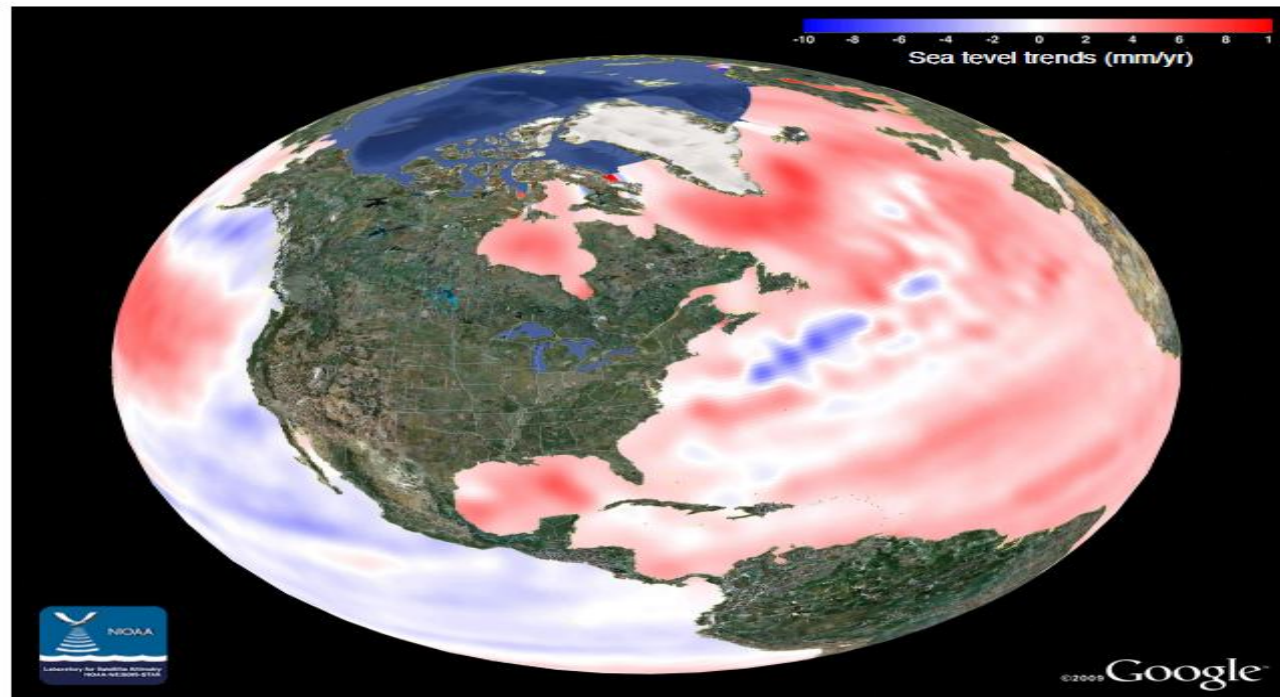
- The original question posed by the U.N. Intergovernmental Panel on Climate Change (IPCC) 1988...Has man-made carbon dioxide made a measurable, and identifiable impact on global warming? Later changed to climate change; now “global weirding”
- The IPCC is not a research organization; it is a politically driven agency which assumed from the start that CO₂ was the primary driver of climate

What Is The Answer To Date?

- Computer models designed to answer this basic question have failed when compared to the real world, historical record
- Climate computer models fail the test of prediction, especially at the regional scale
- The sought-for, man-made climate component is very small, buried amongst the effects of variable atmospheric aerosols, poorly-understood cloud feedback mechanisms, and various solar influences

Chesapeake Bay, VA Has A Problem, Just Don't Blame It All On Climate/CO2/Sea Level

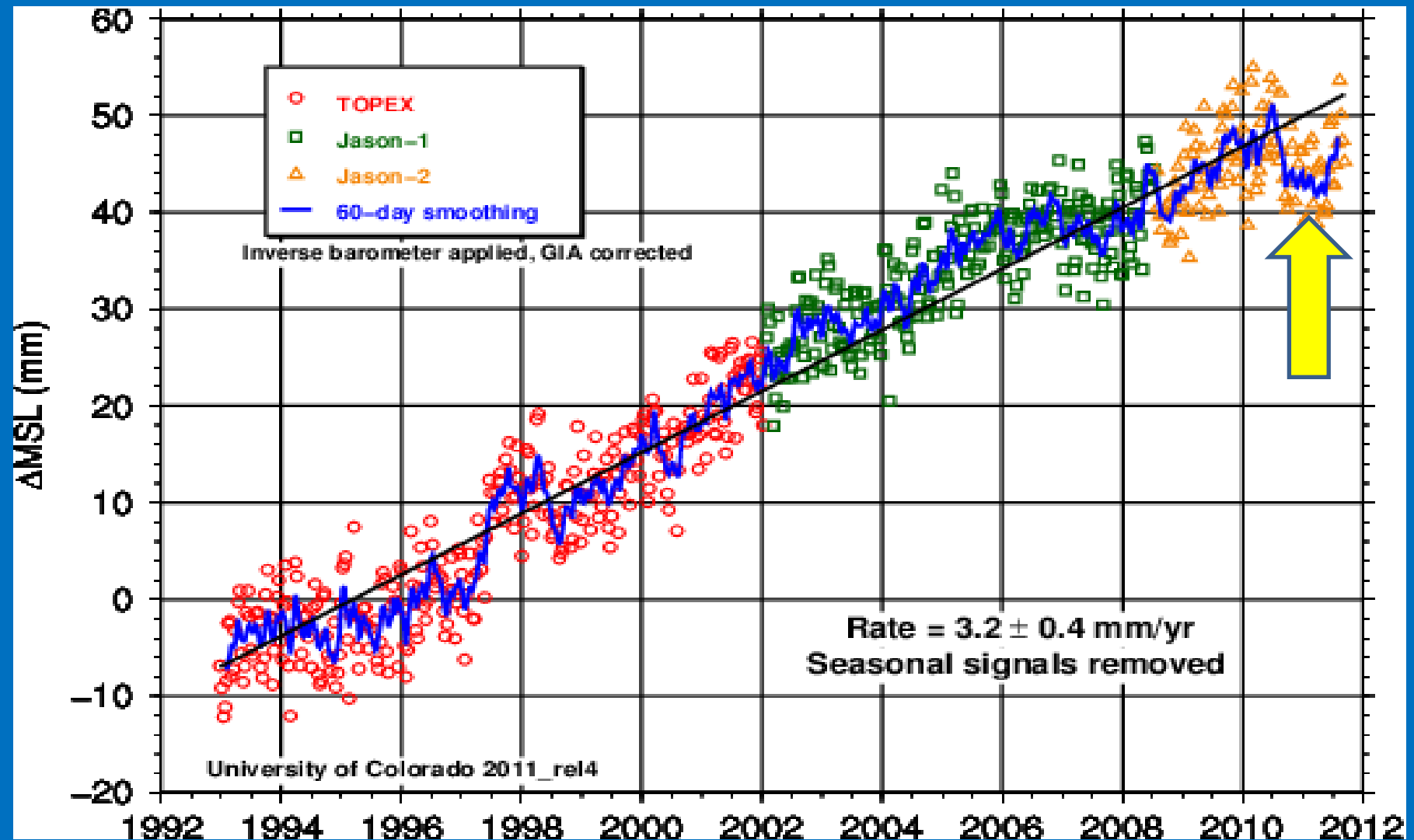
Chesapeake Bay Land Subsidence and Sea Level Change An Evaluation of Past and Present Trends and Future Outlook



John D. Boon
John M. Brubaker
David R. Forrest

A report to the
U.S. Army Corps of Engineers
Norfolk District

2012: Baseline 12-Inches-Per-100-Years Global Sea Level Rise *Stalled*



Once Upon A Time...35 Million Years Ago, A Meteor Followed By An Ice Age

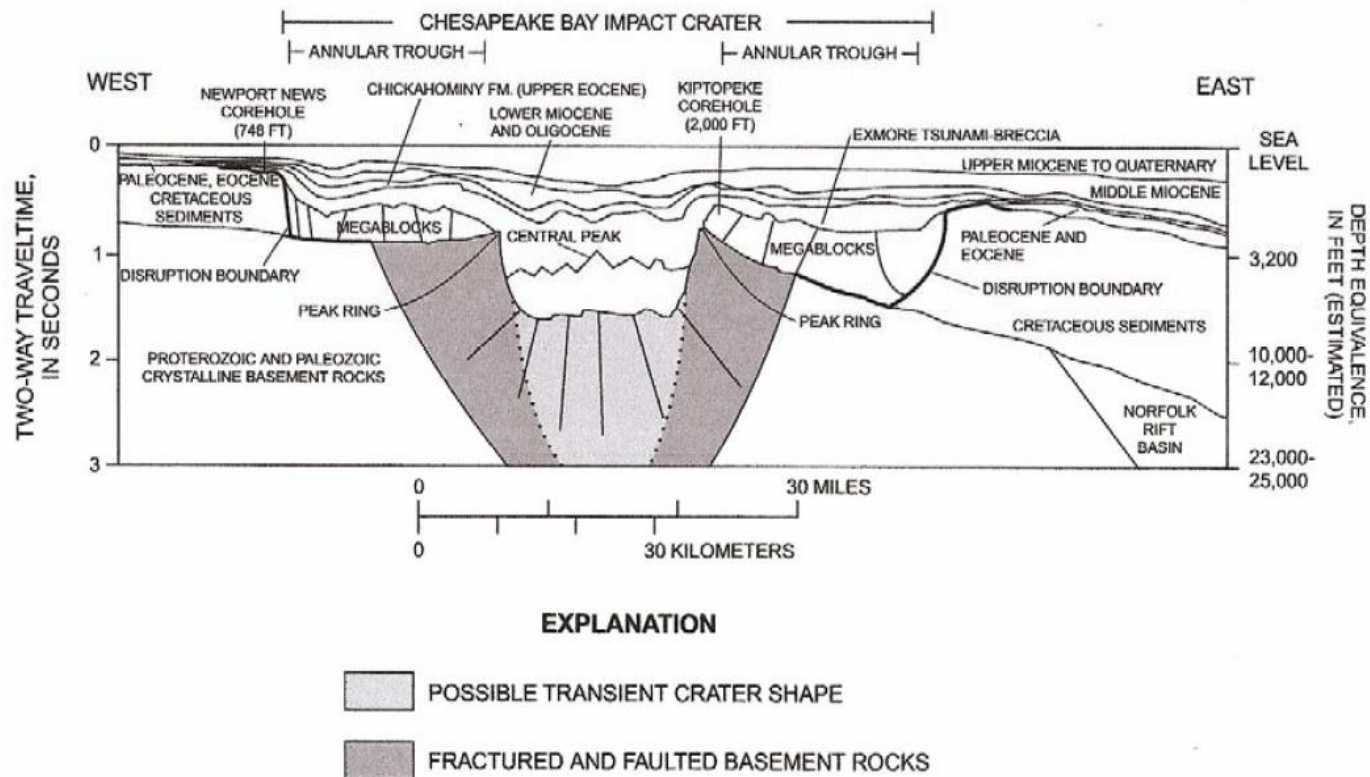


Figure 18. Generalized geologic section of Chesapeake Bay Impact Crater (Powars, 2000).

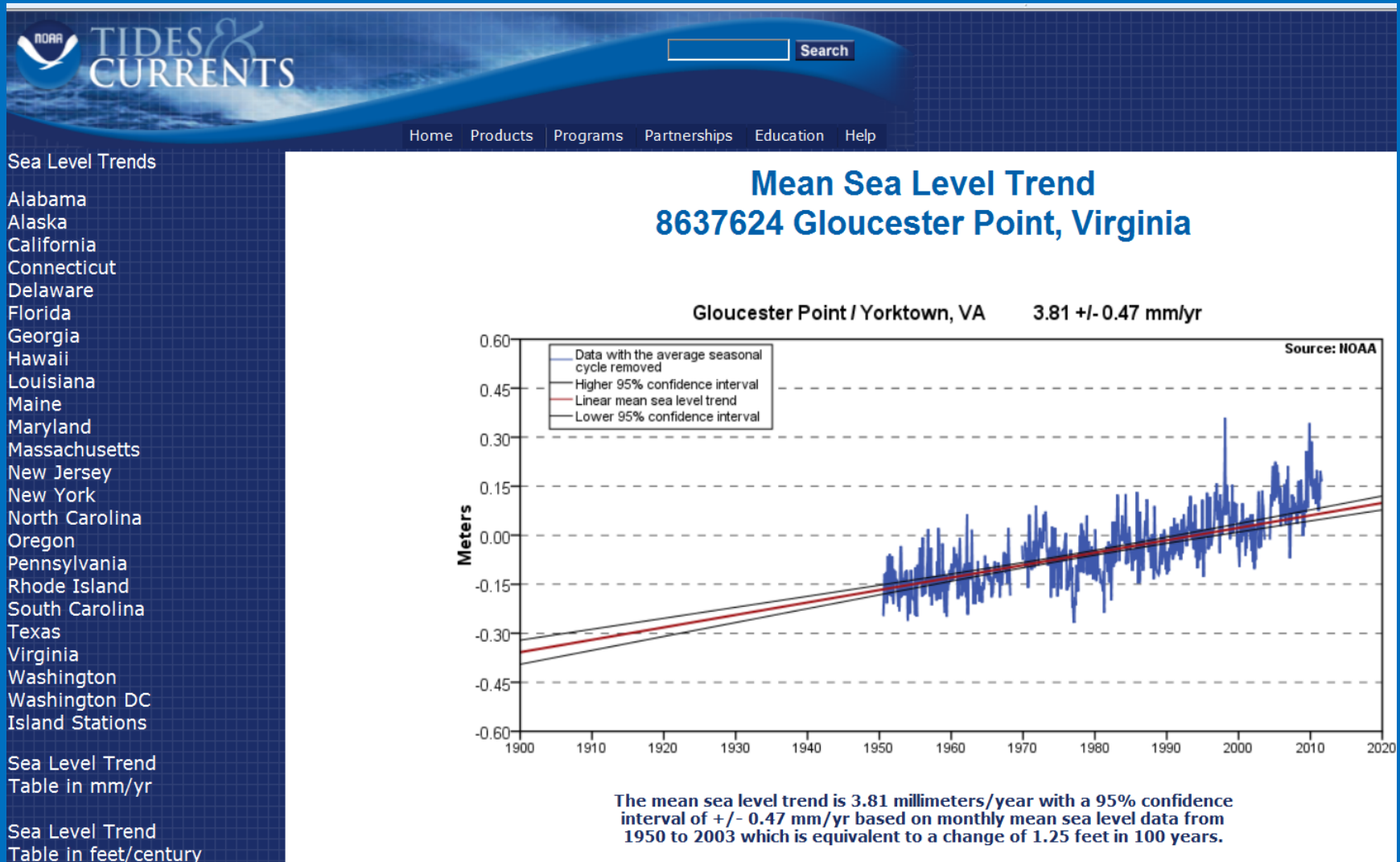
Virginia Institute Of Marine Science

December 17, 2010 Press Release

Study authors Dr. J. Boon and Professor J. Brubaker report that:

- *“absolute sea level in Chesapeake Bay is rising only about half as fast as the global average rise rate.”*
- *The authors conclude “While relative sea level continues to rise at some of the highest rates found along the U.S. Atlantic Coast, there is presently no evidence of a statistically significant increase marking an acceleration in relative sea-level rise” at any of the 5 Bay stations measured*

A One Hundred Year Record Of Chesapeake Bay Area: A Stable Sea Level Rise Of 1.25 Feet/100 Years



VIMS Report December 17, 2010

Dr. John Boon, the study's lead author, says that:

Data from NOAA satellites and tide gauges show that *absolute* sea level is rising at a rate of about 1.8 millimeters per year in Chesapeake Bay. That's only **about half** of the globally averaged 3.1-mm per year rate of absolute sea-level rise, as reported by the U.N. IPCC

ABCs of Land-Ocean Interactions

- *Isostatic Sea Level*: defined as relative sea level changes resulting from the local interaction of land rise or fall and the reference sea level
- **Chesapeake Bay area has had low absolute sea level change/rise, but significant *land sinking***

In Closing

Q.E.D.