

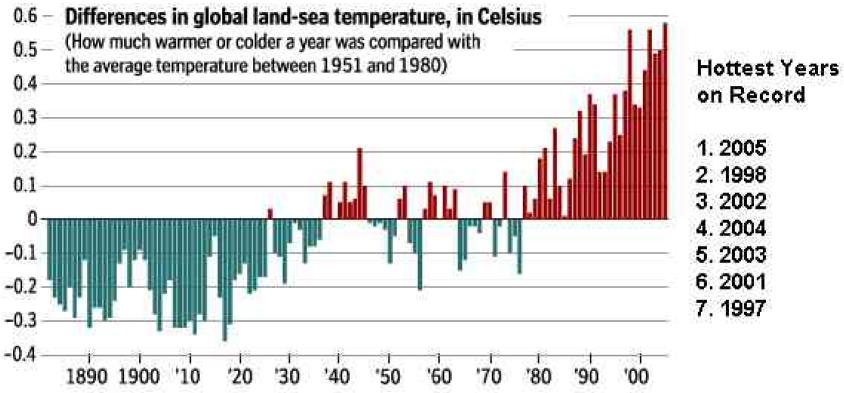
Global Warming Solutions for America







Dr. Eban Goodstein, Lewis & Clark College, Portland, Oregon



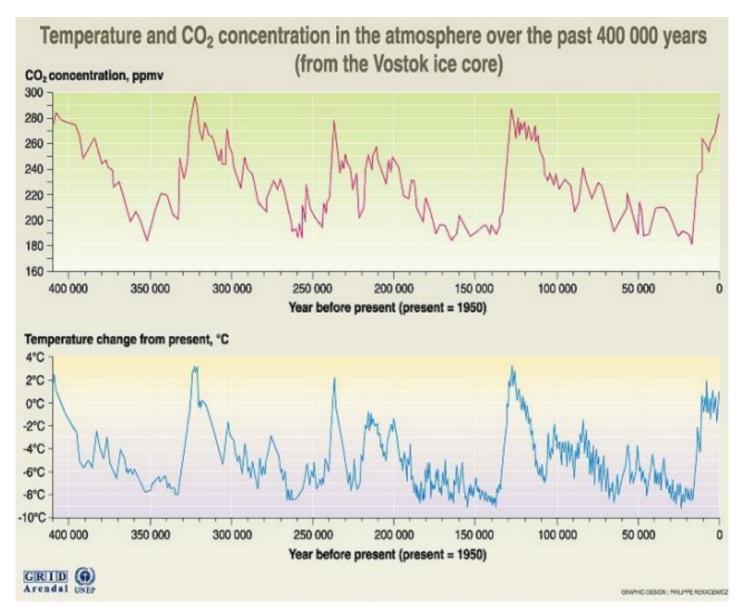
A NASA study concluded that 2005 was the warmest year on record. Two other studies differed slightly but indicated the Earth's temperature is rapidly warming.

SOURCE: Goddard Institute for Space Studies:

GRAPHIC: The Washington Post - December 16, 2005

The Next Century

- Warming of 2.5-10.5 degrees F
- Low end impacts: serious but manageable
- High end impacts: catastrophic



Portland, Oregon





Local Impacts

The Eugene Register-Guard, April 28, 2001

FAMILIES OR FISH

Farmers fight for water rights

Court: Lawyers inside and protesters outside demand the feds leave Klamath water running.

By BLLL BISHOF*
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Darfur: Climate Change as a Factor

BRITISH HOME SECRETARY JOHN REID:

"IENVIRONMENTALI CHANGES MAKE THE EMERGENCE OF VIO-LENT CONFLICT MORE RATHER THAN LESS LIKELY. THE BLUNT TRUTH IS THAT THE LACK OF WATER AND AGRICULTURAL LAND IS A SIGNIFICANT CONTRIBUTORY FACTOR TO THE TRAGIC CONFLICT WE SEE UNFOLDING IN DARFUR. WE SHOULD SEE THIS AS A WARNING SIGN."

Global Impacts

■ The BAD:

(worse as it warms more)

Water shortages from snowpack loss... Increased floods and droughts... Extinction of many species & ecosystems... Spread of pests & diseases... More heat related illnesses and deaths... More intense hurricanes and typhoons



Global Impacts

- The GOOD (<4° F)
 Longer growing seasons...
 fewer cold-related deaths...
 more good golf days?
- The SCARY



Catastrophic Impacts

- Ocean acidification: potential collapse of marine foodchains
- Fire-driven deforestation of Amazon: accelerated warming
- Methane release from tundra: accelerated warming
- Continental Ice Sheet Collapse: sea level rise of 35-40 feet (Sea-level rise of 3 feet would displace tens of millions)



1979-2002 Increase in Greenland Melt Zone

The Arctic Climate Impact Assessment 2004

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Antarctica 2005



www.net.org/warming/stills.html



"How far can it go? The last time the world was three degrees warmer than today – which is what we expect later this century – sea levels were 25m higher. So that is what we can look forward to if we don't act soon...I think sea-level rise is going to be the big issue soon, more even than warming itself...

How long have we got? We have to stabilize emissions of carbon dioxide within a decade, or temperatures will warm by more than one degree. That will be warmer than it has been for half a million years, and many things could become unstoppable....We don't have much time left."

Dr. James Hansen, Director, NASA Goddard Institute for Space Studies.

- The Independent 2/ 17/2006

Emission Reduction Profile to achieve 450 PPM

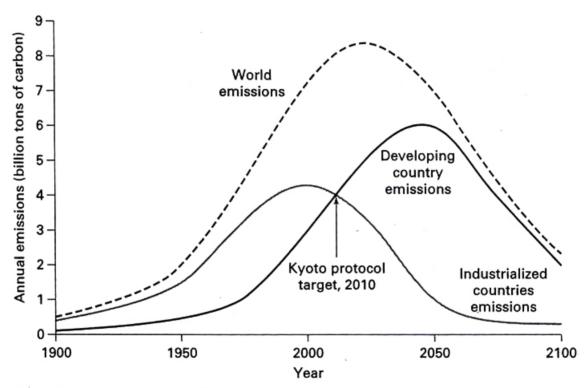
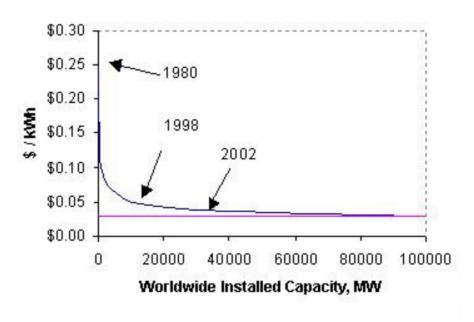


FIGURE 23.1 Stabilizing CO₂ Concentrations at 450 ppm *Source:* Bernow et al. (1999). Used with permission.

The model for a clean energy revolution





Source: Goodstein 2004

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Lewis & Clark College

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Middlebury College

Oberlin College

Linn Benton Community College

San Francisco State University

University of Central Florida

University of Colorado, Denver

University of Portland

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