

## A Digital Atlas of Global Warming

The **Digital Atlas of Global Warming** is the result of the combined efforts of students in the **2007 Advanced Cartographic Design Class**, in the Department of **Geography and Environmental Systems at the University of Maryland Baltimore County**, and under the direction of **Thomas D. Rabenhorst**. This beautiful atlas was researched, designed, and produced by the following students: **Chris Barnes, Margaret Delauney, Anthony Dowell, Cheryl Knott, Ian Laurie, David Maddux, Anna Moore, Phyllis Nix, Jesse Osborne, Emily Puls, Ayodele Smith, David Thompson, and Patrick Woodward**.

The overall thrust of the atlas is to discuss past, current, and future climate change and the impact of this change on various components of the Earth's ecosystem. While there are nearly an unlimited number of topics that can be discussed, we hope those we have chosen will provide some insight into the many potential changes that may be evident on Earth in the near, as well as the more distant future. Topics include:

- 1) Anthropogenic Contributions to Global Warming
- 2) The Present Carbon Cycle
- 3) The Great Ocean Conveyor
- 4) Changes in Global Surface Temperatures
- 5) Past, Present, and Future World Precipitation Distribution
- 6) Arctic Ice and Permafrost
- 7) Ecological Changes in the Arctic
- 8) Global Extent of Rising Sea Level
- 9) Impacts of Global Warming on Human Populations
- 10) Effects of Global Warming on Oceans and their Inhabitants
- 11) Animals Affected by Global Warming
- 12) Effect of Global Warming on Rain-fed Cereal Crops
- 13) Changes in Global Distribution of Vector Borne Diseases

A special thanks must be extended to **Cheryl Knott**, who not only contributed one of the richly illustrated presentations listed above, but also devoted many hours integrating all of the more than 200 graphics developed by the class into the web presentation you are viewing. Her fellow classmates and instructor are indebted to her.

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