

# Summary of Preliminary Report

## The Right Climate Stuff Research Team

January 23, 2013

The Right Climate Stuff (TRCS) research team is a volunteer group of more than 20 scientists and engineers who are primarily retired veterans of our manned space program. We began our investigation into the controversial issue of Anthropogenic Global Warming (AGW) in February 2012. We have reviewed, studied and debated available data and scientific reports regarding many factors that affect temperature variations of the earth's surface and atmosphere. This report provides a summary of findings that we have reached at this point in our investigation.

- 1. The science that predicts Anthropogenic Global Warming is not a settled science.**
- 2. There is no convincing physical evidence of Catastrophic Anthropogenic Global Warming.** Most of the alarm regarding AGW results from output of unvalidated computer models. We understand scientific arguments regarding how doubling CO<sub>2</sub> in the atmosphere over a hundred years or more (if possible) can have a small direct warming effect, but we question the accuracy of feedback simulations in current models computing climate system responses that amplify CO<sub>2</sub> effects. Efforts to estimate climate sensitivity to CO<sub>2</sub> based solely on physical data have large uncertainties because many factors affect global temperatures, and CO<sub>2</sub> levels rise in the atmosphere after the earth warms due to other factors. While paleoclimate data clearly show CO<sub>2</sub> levels rise and fall in the atmosphere hundreds of years after temperature rises and falls due to other causes, the evidence is very weak to support claims of a catastrophic rise in global temperatures caused by CO<sub>2</sub> emissions related to human activity.

- 3. Computer models need to be validated before being used in critical decision-making.** Our manned aerospace backgrounds in dealing with models of complex phenomena have convinced us that this rule must be followed to avoid decisions with serious unintended consequences.
- 4. Because there is no immediate threat of global warming requiring swift corrective action, we have time to study global climate changes and improve our prediction accuracy.** While there are many benefits due to some global warming, the major threats appear to be associated with a net loss of Greenland and Antarctica ice sheet mass that would contribute to a gradual sea-level rise. The history, current trends, and specific causes of ice sheet melting and ice accumulation by precipitation must be better understood before determining how best to respond to threats of accelerated sea-level rise.
- 5. Our US government is over-reacting to concerns about Anthropogenic Global Warming.** More CO<sub>2</sub> in the atmosphere would be beneficial for forest and crop growth to support the earth's growing population, so control of CO<sub>2</sub> emissions is not an obvious best solution to hyped-up concerns regarding AGW. Eventually the earth will run out of fossil fuels and alternative energy sources will be required. Market forces will (and should) play a big role in this transition to alternative energy sources. Government funding of promising research and development objectives for alternative fuels appears to be a better option at this time than expenditures of enormous resources to limit CO<sub>2</sub> emissions.
- 6. A wider range of solution options should be studied for global warming or cooling threats from any credible cause.** CO<sub>2</sub> effectiveness in controlling global average temperatures or sea levels has not been established. More reliable and greater control authority may be available from engineering solutions that would accommodate the beneficial aspects of more CO<sub>2</sub> in the atmosphere.

Webmaster: [info@theRightClimateStuff.com](mailto:info@theRightClimateStuff.com).