

GLOBAL WARMING

This is a “hot button” topic with a good many people, nowadays. Many people who have strong opinions on the topic have little or no training in either atmospheric physics or climatology. Nor is such training necessary to voice an opinion. Everybody has the right to speak their mind on any topic at all. Experts have been wrong before, and will be wrong again.

The nice thing about democracy is that the people themselves decide what course of action they are to take. If they make a bad choice; well, they’re the ones who will have to live with the consequences. Here are some of my writings on the subject of climate change. All the papers are in the .pdf format.

[CLIMATE CHANGE](#) – An introduction to the basic concepts of climate change.

[RECENT CLIMATIC CHANGES](#) - A brief summary of climate changes since the late Pleistocene

[HEATING THE EARTH](#) – An introduction to the heating of the Earth and its atmosphere by the Sun.

[EARTH-SUN RELATIONSHIPS](#) – An introduction to the five controls of the Earth’s climate: solar emissivity, earth-sun distance, atmospheric attenuation, angle of incidence, and atmospheric and surface albedos.

[WATER AND THE EARTH’S HEAT BUDGETS](#) – An overview of the Earth’s six heat budgets. This paper details the roles of all the major greenhouse gases, with evaluations of their contributions in both watts per square meter and in percentages. References and citations are given.

[HEAT TRANSFER IN THE ATMOSPHERE](#) – A discussion of the only three ways in which heat energy can be transferred from place to place: electromagnetic radiation, mass transfer, and conduction.

[THE “GREENHOUSE” EFFECT](#) – A brief discussion of what the “greenhouse” effect is in our atmosphere, and of the most important of these gases: water vapor, carbon dioxide, and ozone.

SATELLITE MEASUREMENTS OF EMISSIVITY – A discussion of the failure of satellite measurement to note any significant change in the Earth’s global temperature as reflected in measurements of total emissivity or mean wavelength of emissions.

THE PROBLEM WITH USING AIRPORT TEMPERATURES – A discussion of some of the problems associated with using changes in airport temperatures as an input in global temperature models.

SOME COMMENTS ON THE AWAKE ISSUE ON GLOBAL WARMING – This is a series of comments (at the request of the Editors) on the 8 August 2003 issue of *Awake*, a magazine put out by the Jehovah’s Witnesses. The four articles in the issue dealt with weather and climate.

TIM FLANNERY AND “THE WEATHER MAKERS” – A letter to a friend who strongly recommended the book as a sourcebook on climate change.

FALSE ASSUMPTION ON GLOBAL WARMING – A January 2004 letter to the editors of the Redding (CA) *Record-Searchlight*.

LETTER TO AN “APOCALYPTIC ENVIRONMENTALIST” – A letter to a friend who believes that global warming will cause the end of civilization and possibly of man himself.

WHAT GREENHOUSE GASES ARE AND WHAT THEY DO – A letter to the editor of April 2007.

ICE CORE TEMPERATURES AND CARBON-DIOXIDE FORCING – A letter to an apocalyptic environmentalist on the false correlation between Antarctic ice core temperature proxies and carbon-dioxide concentration proxies.

SOME COMMENTS ON “AN INCONVENIENT TRUTH” – A discussion of errors of both fact and interpretation in the Gore film.