

Conclusions

“It’s a paradox” (as described in Chapter 1) that despite the continual increase in the Sun’s average solar energy emissions of approximately 30% (Figure 1.10) since the beginning of the Earth’s origin, the Earth’s climate has cooled over the past 65 MY (see Figures 1.3 and 1.5). Furthermore, as indicated by Figure 1.7 and other temperature charts for time spans of greater than 100,000 years, the temperature of the Earth is cyclical, dependent upon the distance of the Earth from the Sun. The temperature charts prove that the average Earth’s temperature is cooling rather than warming as claimed by some. Temperature charts obtained by satellite for the past 22 years show no meaningful change in temperature (Figure 1.8); this is likely due to the fact the time period is too short to display the full temperature cycle.

Chapter two develops the relationship of atmospheric pressure to temperature. In order to utilize equation for an ideal gas, the gas pressure should be less than 0.1 atmospheres. The troposphere gas pressure ranges from 1 atmosphere at sea level to about 0.3 atmosphere at its outer limits (7 to 10 miles) (see Figure 2.1). As a result, energy (heat) is primarily transferred in the troposphere by mass air convection (Figure 2.3, 2.4, and 2.5)

and not radiation. Figure 2.7 demonstrates that if the Earth's atmosphere consisted of entirely carbon dioxide (at the same pressure) the Earth's surface temperature would be significantly lower and not higher as some individuals have proposed. Adding carbon dioxide to the atmosphere, lowers the amount of energy absorbed from the Sun, not increases it as proposed by many. Eq. 2.25 can be used to determine the temperature for various mixture of gases at various pressures.

As discussed in detail in the text, the development of the oceans and atmosphere have resulted in a variety of climates for the Earth over time. One must look at the long-term changes and the reason for those changes, not the short term of only a few years, as some have done, if one is to predict climate change.

Looking at the future evolution of the Earth's atmosphere, one can see a major increase in temperature that will blot out life as we know it in 600 MY. This will occur as a result of the degassing of the Earth's mantle.

Unfortunately, today the scientific community has been politicized by individuals refusing to discuss ideas different than their own. The time has come for scientific reasoning where hypotheses rise and fall by scientific facts, rather than political ones. Everyone is entitled to their own opinion, but they are not entitled to force their opinions down other people's throats; that is censorship