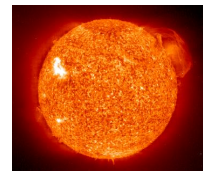

Climate Change Fact Sheet

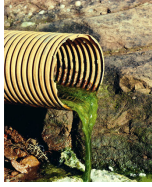


1. The Earth is a dynamic geological entity driven by both internal processes and extraterrestrial processes – primarily the Sun – and through occasional collisions with space debris such as asteroids.
2. During its estimated 4.5 billion years in existence, the Earth-Sun relationship has been and is central to *all* life on Earth as are all the gases that comprise the atmosphere, including Carbon Dioxide.
3. Internal Earth forces such as plate tectonics and volcanism, has changed the Earth's climate many times. This is proven by the geological record and ice-core samples taken from Greenland and the Antarctic.
4. Sunspot activity also accounts for driving atmospheric dynamics on Earth. Higher sunspot activity equates to higher temperatures on Earth. Lower Sunspot activity usually heralds a period of cooling. Between 1645-1715, the Maunder Minimum or 'Little Ice Age' took place at a time of lower Sunspot activity. Increased volcanism during this time has also been thought by some to have contributed to this period of cooling.
5. Not only has the Earth's climate changed, but so too has its atmospheric content. For example, it is doubtful that humans could have lived comfortably at the time of the dinosaurs when the overall global climate was much warmer than our contemporary period and the oxygen content of the atmosphere was much higher – 35% as



opposed to the 21% of today. Heat, humidity and carbon dioxide emissions were much higher during the Jurassic and Cretaceous Periods than even the most alarmist predictions proffered by Climate Change Scientists. This is science fact.

6. Humans have never been particularly good at administering the toxic by-products of industrial civilization.



7. As a global species driven by consumerism and economies based on the idea of exponential growth, humans will need to use their collective technological ingenuity to contain and ultimately reduce the amount of man-made waste entering the Earth's eco-system. This can be achieved by social commitment, political discipline and technological break-throughs within the contemporary political-economic context – to be *cleaner*.
8. A Carbon Dioxide Tax or Emission Trading Scheme is no solution to the power of *natural* climate change variations. The international debate on the existence of anthropogenic climate change has politicised science to the point where politicians and opinion leaders have taken the objectivity and clarity out of science. Without objectivity, science becomes no more informative than alchemy.



Dr. John Bruni, Director, SAGE International, Adelaide, South Australia ©

Images

Earth-Sun:

<http://takkic.files.wordpress.com/2010/01/4-earth-sun-bright.jpg>

Volcanic eruption:

http://photos.autoexpress.co.uk/images/front_picture_library_UK/dir_733/car_photo_366967_7.jpg

Sunspots:

<http://personal.inet.fi/tiede/tilmari/sunspot.jpg>

Water pollution 1:

<http://www.liverpool.nsw.gov.au/LCC/INTERNET/RESOURCES/IMAGES/Water-pollution.jpg>

Water pollution 2:

http://waterengnet.com/wp-content/uploads/2011/05/CHINA_-_River_pollution.jpg

Air pollution:

<http://www.universetoday.com/wp-content/uploads/2010/12/Air-Pollution.jpg>

Alchemist:

<http://www.leadtogold.com/pics/alc.png>
