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# CLIMATE CHANGE AND GLOBAL WARMING

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## *Rex J Fleming*

*Global Aerospace, LLC, USA*

### **An updated review on carbon dioxide and climate change**

This manuscript will review the essence of the role of CO<sub>2</sub> in the Earth's atmosphere. The logic of CO<sub>2</sub> involvement in changing the climate will be investigated from every perspective: reviewing the historical data record, examining in further detail the 20<sup>th</sup> century data record, and evaluating the radiation role of CO<sub>2</sub> in the atmosphere – calculating and integrating the Schwarzschild radiation equation with a full complement of CO<sub>2</sub> absorption coefficients. A review of the new theory of climate change – due to the Sun's magnetic field interacting with cosmic rays is provided. The application of this new theory is applied to climate-change events within the latter part of the Earth's interglacial period. The application of the new theory to the Earth's Ice Ages is summarized along with a brief discussion of the role of cosmic rays in creating significant lower layer clouds which increase the albedo of the Earth. The results of this review point to the extreme value of CO<sub>2</sub> to all life forms, but no role of CO<sub>2</sub> in any significant change of the Earth's climate.

### **Biography**

Rex J Fleming has completed his PhD in 1970 from the University of Michigan. He spent the next 44 years in atmospheric research and program management in the National Oceanic and Atmospheric Administration (NOAA), and at the University Corporation for Atmospheric Research (UCAR). He has served on NOAA's Council for Long-term Climate Monitoring. He has published more than 25 papers in reputed journals. He has served as: Chairman, Probability and Statistics Committee, American Meteorological Society, AMS (1976-1977); Secretary, Atmospheric Science Section of the American Geophysical Union (1984-1986); and Member, AMS Board on Women and Minorities (1986-1991). He has received the Department of Commerce Gold Medal Award (1980) for outstanding achievement in directing the USA role in the Global Weather Experiment. He is an Elected Fellow of the American Association for the Advancement of Science (AAAS). He continues to perform research within his own consulting company on nonlinear systems.

[rex@rex Fleming.com](mailto:rex@rex Fleming.com)

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