

## An updated review on carbon dioxide and climate change

This manuscript will review the essence of the role of  $\text{CO}_2$  in the Earth's atmosphere. The logic of  $\text{CO}_2$  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  $\text{CO}_2$  in the atmosphere – calculating and integrating the Schwarzschild radiation equation with a full complement of 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

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