

# GEOSCIENCES AND REMOTE SENSING &

# GEOCHEMISTRY, ENVIRONMENTAL CHEMISTRY AND ATMOSPHERIC CHEMISTRY

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## An updated review on carbon dioxide and climate change

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This presentation 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 20th-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 change of the Earth's climate.

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