

The Physics of Climate Change

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Abstract. Understanding the physical processes behind climate change is crucial for developing effective mitigation strategies. This study examines the role of atmospheric physics in climate dynamics, focusing on energy balance and radiative forcing.

Keywords: climate change, atmospheric physics, energy balance, radiative forcing, climate dynamics

Introduction

Climate change presents one of the most pressing challenges of our time, driven by complex interactions within the Earth's atmosphere. At the heart of this phenomenon are physical processes that govern energy exchange and atmospheric dynamics. This paper explores the fundamental physics underlying climate change, emphasizing the role of radiative forcing and energy balance in shaping global climate patterns. By elucidating these mechanisms, we aim to inform strategies for addressing climate impacts.

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References

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