



Anthropogenic climate change and its consequences

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Abstract

In the conclusion of the article "Carbon exchange between the atmosphere and the ocean and questions about the increase in atmospheric CO₂ concentration in past decades", which appeared in 1957 in the leading geophysical journal *Tellus*, its authors, oceanologist Herman Revelle and nuclear physicist Hans Suess wrote: "And so mankind is now conducting a unique geophysical experiment that has never happened in the past, nor can it be repeated in the future. Within a few centuries, we are returning to the atmosphere and the ocean the carbon deposited by nature in sedimentary rocks in a process that took hundreds of millions of years." what is the current status of this experiment? What effects might it have on us? In my talk I will briefly summarise the state of the art on this subject.

Keywords: atmospheric CO₂ concentration, geophysical experiment