Atmospheric
Chemistry
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Discussions

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Interactive comment on "Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2 °C global warming is highly dangerous" *by* J. Hansen et al.

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"Again, the work presented in this paper is based on a climate computer model that has incorrect physics. The energy balance of these climate models is based on the radiative forcing approach of the so called greenhouse gas effect. This effect is a fiction and the radiative approach violates the laws of thermodynamics. Colder atmospheric air "slabs" cannot radiate energy to warmer air "slabs" or surface."

Nabil Swedan,

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Can I suggest you go outside of a winters evening when the sky is clear and it is marginal for a ground frost. If your car is on the drive look for a thin layer of frost on it (car bodies are colder than both the air and the ground under clear skies. Wait for a layer of high level cloud to come over. What happens to the frost on your car? It melts my friend. Why? The GHE: Back-radiating from cloud at a temp well below freezing (Ci cloud may be near -30C) to one near freezing and causing it's temperature to rise. Same thing happens on the ground but it's easier to notice on car bodies. In both things there is a flux of heat escaping to space that is slowed by the back-radiation, such that the flux from below the ground up (warming) or from the air to the car body overtakes the cooling to space You might want to read up the science. All things emit AND absorb EM energy at temps above 0 Kelvin.

The ground does NOT say, hey photon, you've come from a cloud/CO2 molecule that's colder than me .... so go away.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 20059, 2015.

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