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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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The 2nd Law does not require that a process be accompanied by an increase of entropy as some comments here have claimed.

"charlescholley@gmail.com Received and published: 29 July 2015 The fundamental error of Nabil Swedan is that he is using an overly simplified definition of the Second Law of Thermodynamics i.e. heat can only flow from hot to cold. The more precise definition is that in a closed system any natural process moves toward greater entropy

C5991

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or disorder."

Processes, which result in a decrease in entropy of the system, can occur spontaneously provided that they result in a quantitatively greater decrease in the system's enthalpy.

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

**ACPD**

15, C5991–C5992, 2015

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