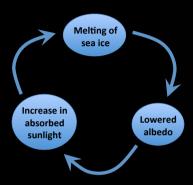
Summary of Pistone, Eisenman, & Ramanathan (PNAS 2014)

• *Background:* Difference in albedo between ice and ocean causes a **positive feedback.** 



• Result: Using satellite measurements, we find that sea ice retreat during 1979-2011 caused the solar energy input into the Arctic to increase by  $6.4 \pm 0.9 \, \mathrm{Wm^{-2}}$ . The contribution of this to the global energy budget during 1979-2011 is 25% as large as the direct radiative forcing from rising CC.

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• *Image:* Map of additional energy absorbed in the climate system due to Arctic sea ice retreat during 1979-2011. This image is at http://svs.gsfc.nasa.gov/4138

