## WHAT CAN WE DO WHEN THINGS GET OUT OF HAND? EXTREME MITIGATION & ADAPTATION

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## **Something Old and Something New**

NRC (1992), Policy Implications of Greenhouse Warming, Chapter 28 "Geoengineering." Royal Society (2009), Geoengineering the Climate: Science, Governance and Uncertainty.

## **Basic Options Used in Cost and Risk Assessments**

NRC 1992 Royal Society 2009

Forests, Oceans, CFC Removal CDR Carbon Dioxide Removal Screening out some sunlight SRM Solar Radiation Management

## ISSUES RAISED BY LEO AND JIP THAT SPUR ANALYSIS

Characterizing costs and risks of classes of options

- Are lower cost options also higher risk options?
- Can the terms of tradeoffs across costs and risks be improved?

Defining principles of use, flagging moral hazard

- As insurance against calamity?
- As an alternative to mitigation?

Defining governance of research and use

- Status Quo no established governing structure
- Proposed governance from state unanimity to state unilateralism . . . . to private actions?
- Designing planned adaption into international arrangements on geoengineering