

Governing Solar Geoengineering

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Characteristics

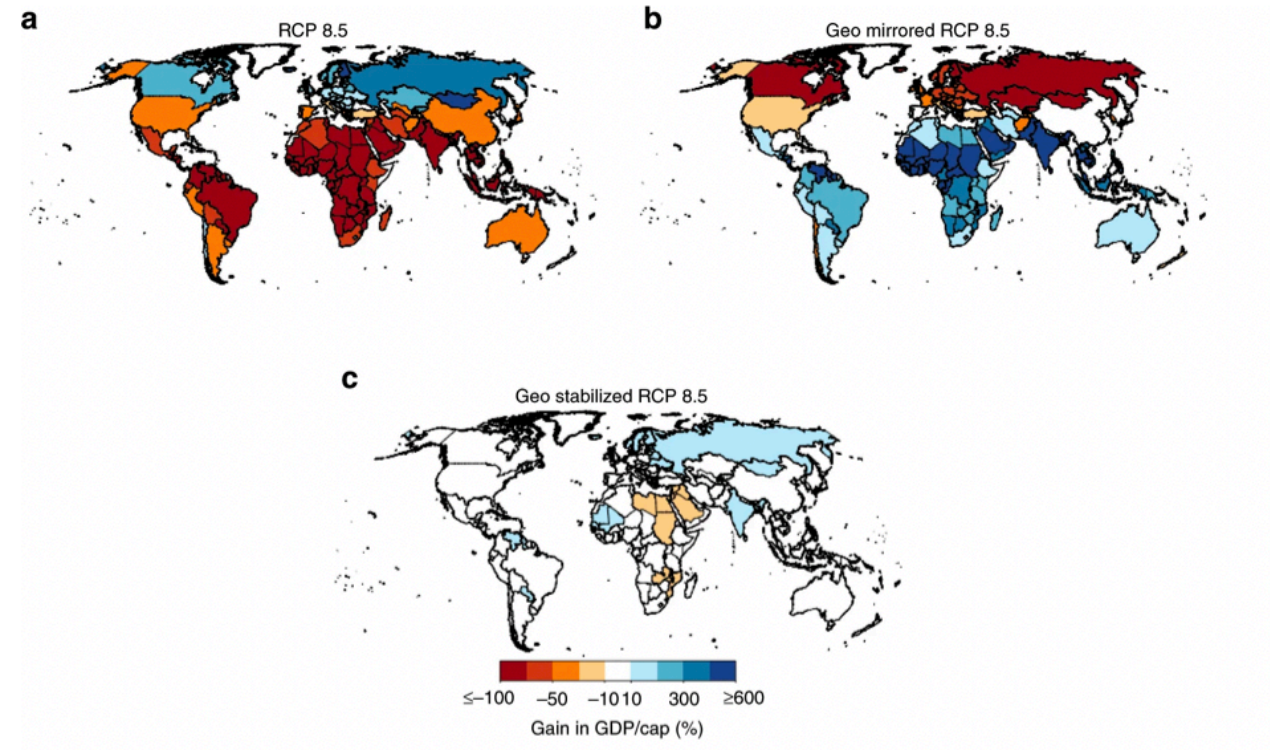
- Relative to traditional mitigation, solar geoengineering is
 - Inexpensive
 - Immediate
 - Imperfect

Challenges

- How much?
 - Different climates and preferences.
- Who?
 - Balance of power and capacity.
- When?
 - Trigger point (start).
 - Termination (end).
- Where?
 - Optimal deployment.

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Climate econometric models indicate solar geoengineering would reduce inter-country income inequality

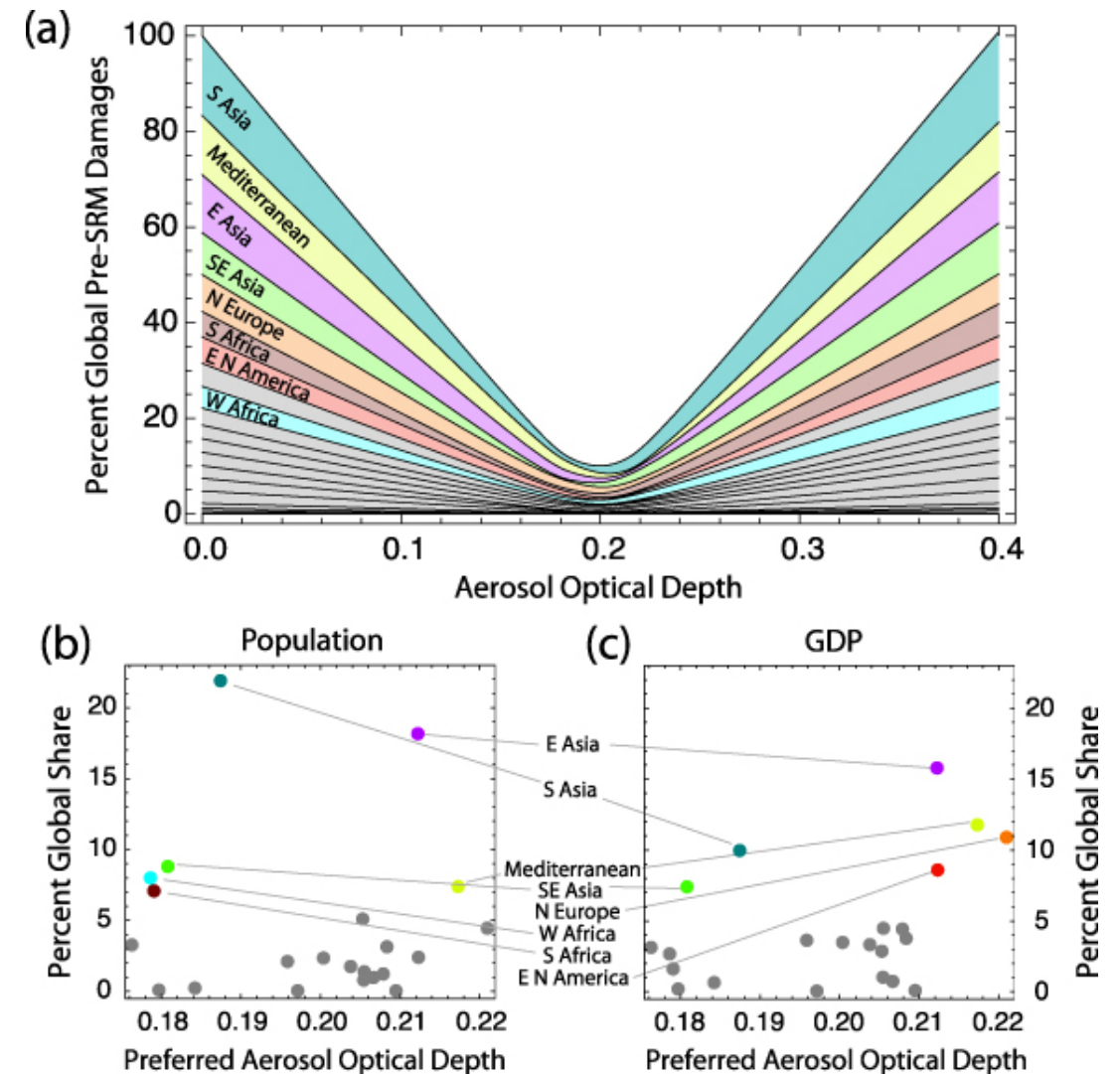
Anthony R. Harding, Katharine Ricke [✉](#), Daniel Heyen, Douglas G. MacMartin & Juan Moreno-Cruz

Nature Communications **11**, Article number: 227 (2020) | [Cite this article](#)

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Strategic incentives for climate geoengineering coalitions to exclude broad participation

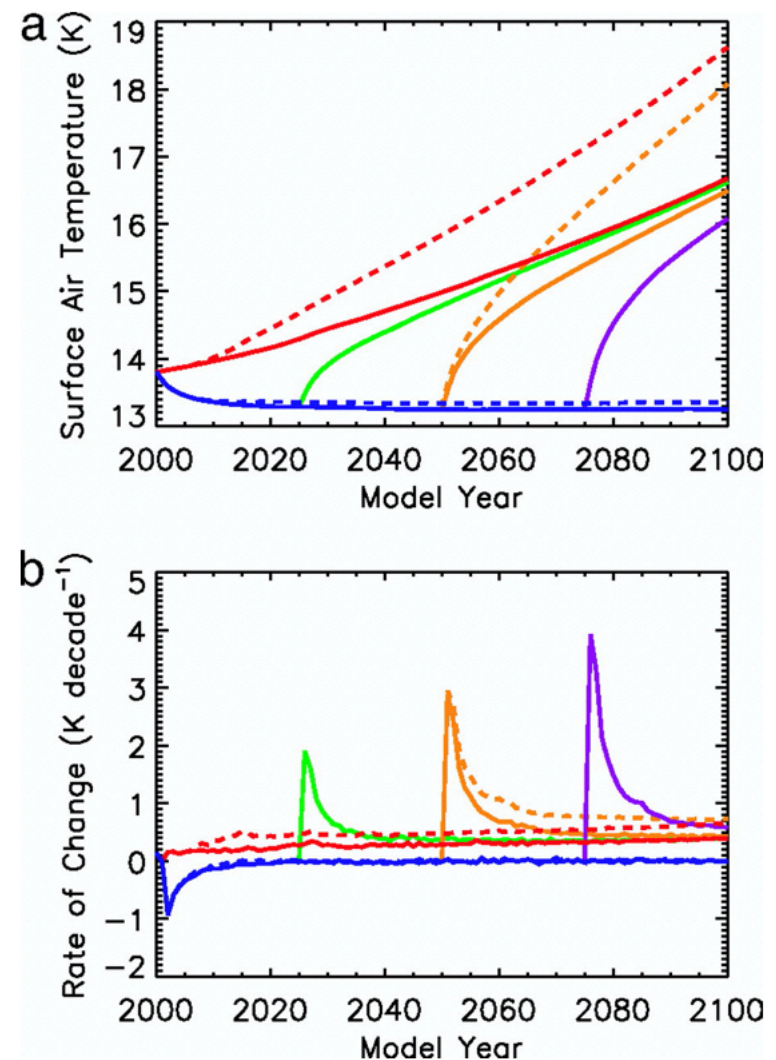
Katharine L Ricke¹, Juan B Moreno-Cruz² and Ken Caldeira¹

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[Environmental Research Letters](#), [Volume 8](#), [Number 1](#)

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Transient climate–carbon simulations of planetary geoengineering

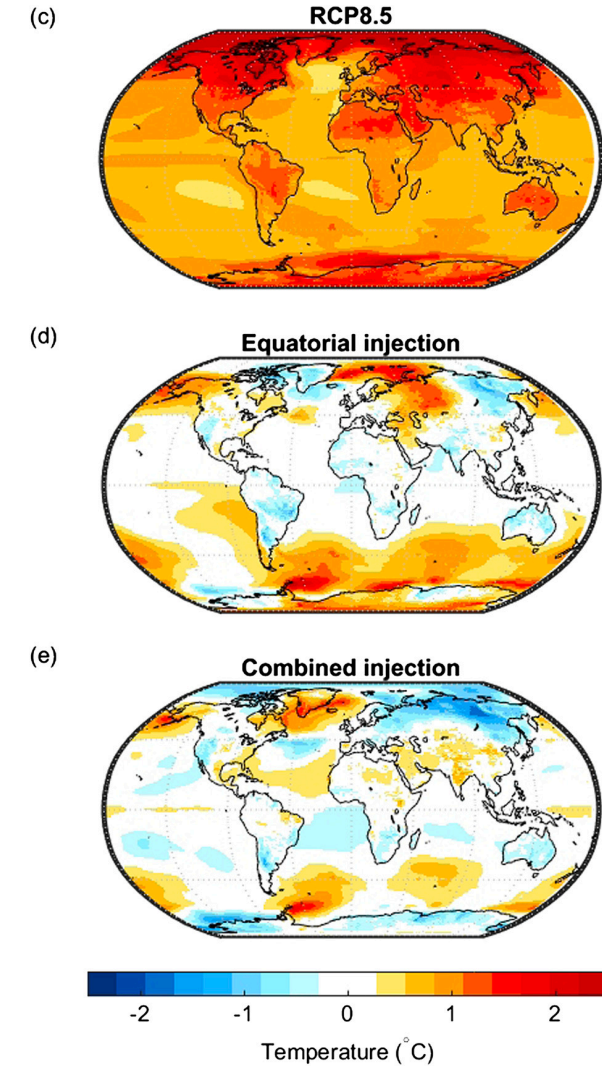
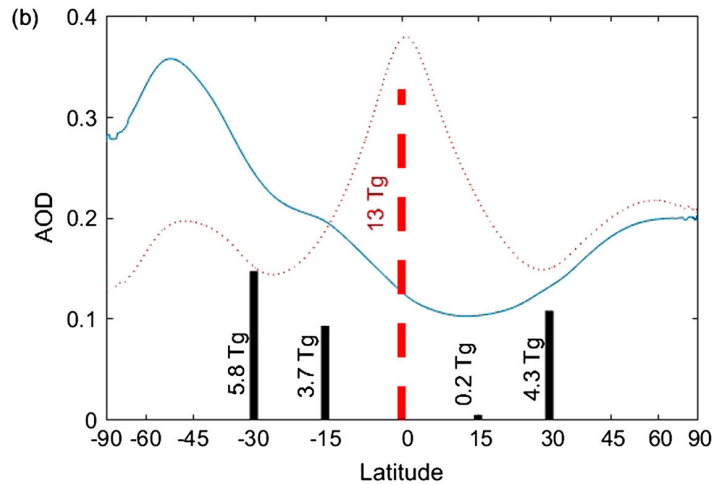
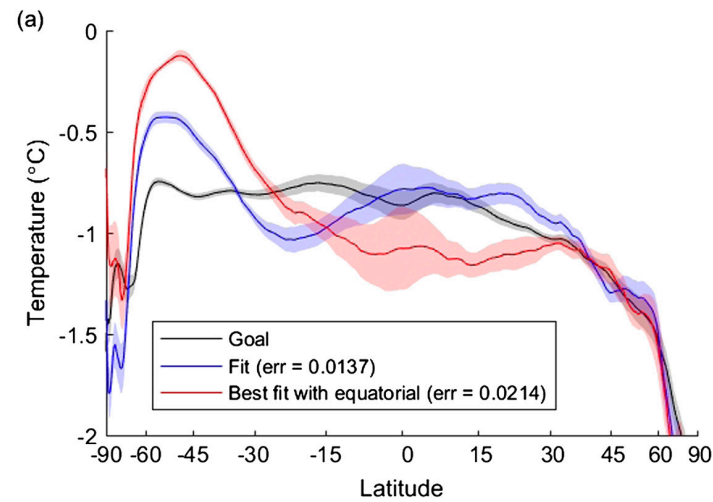
H. Damon Matthews and Ken Caldeira

PNAS June 12, 2007 104 (24) 9949–9954; <https://doi.org/10.1073/pnas.0700419104>

Edited by David M. Karl, University of Hawaii, Honolulu, HI, and approved April 25, 2007 (received for review January 16, 2007)

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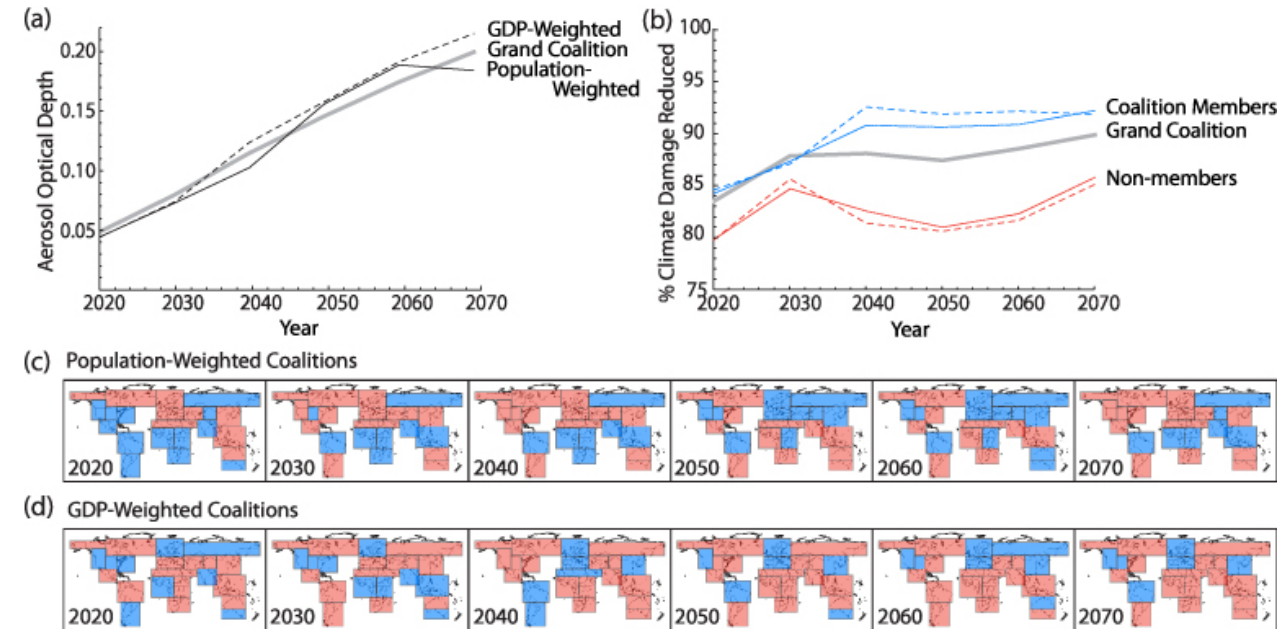


The Climate Response to Stratospheric Aerosol Geoengineering Can Be Tailored Using Multiple Injection Locations

Douglas G. MacMartin✉, Ben Kravitz, Simone Tilmes, Jadwiga H. Richter, Michael J. Mills, Jean-Francois Lamarque, Joseph J. Tribbia, Francis Vitt

Governance structures

- Exclusive Coalitions
- Clubs and Issue-Linking
- Counter-geoengineering



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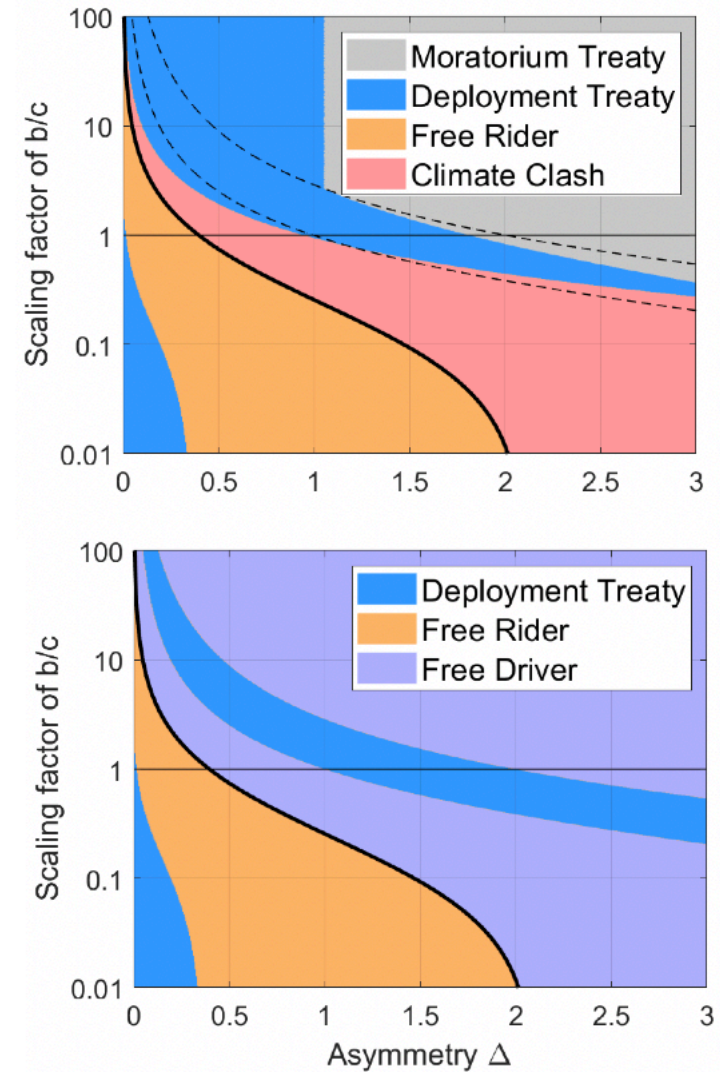
[Environmental Research Letters](#), Volume 8, Number 1

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Strategic implications of counter-geoengineering:
Clash or cooperation? ☆

Daniel Heyen ^{a, b, ✉}, Joshua Horton ^c, Juan Moreno-Cruz ^d