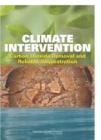
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CLIMATE CHANGE AT THE NATIONAL ACADEMIES

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Climate Intervention Reports (2015)

Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration and Climate Intervention: Reflecting Sunlight to Cool Earth





Climate intervention is no substitute for reductions in carbon dioxide emissions and adaptation efforts aimed at reducing the negative consequences of climate change. However, as our planet enters a period of changing climate never before experienced in recorded human history, interest is growing in the potential for deliberate intervention in the climate system to counter climate change. This study assesses the potential impacts, benefits, and costs of two different proposed classes of climate intervention: (1) carbon dioxide removal and (2) albedo modification (reflecting sunlight). Carbon dioxide removal strategies address a key driver of climate change, but research is needed to fully assess if any of these technologies could be appropriate for large-scale deployment. Albedo modification strategies could rapidly cool the planet's surface but pose environmental and other risks that are not well understood and therefore should not be deployed at climate-

Media Coverage

Scientific Pros
Weigh The Cons
Of Messing With
Earth's Thermostat
National Public
Radio (with audio)

Panel Urges
Research on
Geoengineering as
a Tool Against
Climate Change
New York Times

Scientists urge global 'wake-up call' to deal with climate change The Guardian

In Geoengineering
Study, Science
Academy Sees

altering scales; more research is needed to determine if albedo modification approaches could be viable in the future.

Resources

- Complete reports for free PDF download:
 - Climate Intervention: Carbon Dioxide Removal and Reliable Sequestration
 - Climate Intervention: Reflecting Sunlight to Cool Earth
- Report in Brief (4 page lay summary)
- Press Release
- Climate Intervention briefing slides (PDF)
- Watch the webcast of the report release briefing
- Recorded Union of Concerned Scientists webinar
- Watch the National Research Council webinar

Merit in CO2
Removal, Risk in
Reflecting Sunlight
Dot Earth (New
York Times)

U.S. should fund climate engineering research, report concludes
Science Magazine

Fed report: Time to examine purposely cooling planet idea
Associated Press

Climate
geoengineering
schemes come
under fire
Nature

National Academy:
Geoengineering No
Substitute for
Carbon Cuts
Inside Climate
News

Join the conversation on Twitter: #ClimateIntervention

For more on the study which generated these reports: **Background on the Study**

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Climate Change at the National Academies is now on <u>Twitter</u> (@NASEM_Climate) and <u>Facebook!</u> Make sure to follow us for updates on climate change activities across the institution.

Upcoming Events

Workshop on Geologic Sequestration

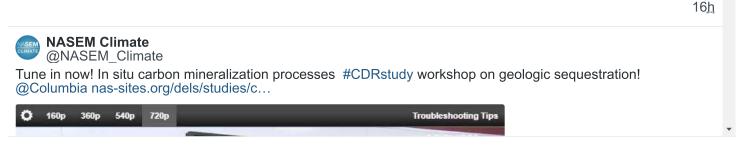
November 28, 2017
Palo Alto, CA
Agenda
Register

View Past Events



Lynn Orr talks #CO2 storage in the subsurface pore space at our workshop on geologic capture and sequestration of carbon #CDRstudy watch the live webcast here: nas-sites.org/dels/studies/c...





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