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Dear Friend,

Reflecting on the increasing intensity of climate impacts observed throughout the past year has further focussed international attention on the devastating realities of rising temperatures and the increasing risk of (and from) exceeding 1.5°C warming. From floods such as those that left one third of Pakistan under water, to droughts and heatwaves across every continent, governments can no longer ignore the severity of impacts and the urgency with which action is now required. On the one hand, governments need to double down on efforts to reduce the risks of overshoot through mitigation. On the other, they also need to substantially increase efforts to manage the risks from overshoot, such as through adaptation, building resilience, loss and damage provisions, and potentially considering the role – if any – of emerging techniques like solar radiation modification.

Not least, the severity of the impacts provided important context for intergovernmental discussions about "loss and damage" and the need for stronger investment in adaption and building resilience during COP27 in Egypt in November. With current government commitments still providing no credible pathways for limiting warming to 1.5°C it was no surprise that last year's COP focussed strongly on adaptation and creating a new fund to help vulnerable countries for "loss and damage" already taking place due to climate change. As expected, we have seen action around Carbon Dioxide Removal (CDR) accelerate considerably in the past year and it further featured in discussions both in and outside of the COP negotiation halls. It was also notable that this year a number of COP side-events addressed potential climate interventions such as Solar Radiation Modification (SRM), including events organised by UNESCO, the Climate Overshoot Commission, and the US non-profit, Silver Lining. deployment of SRM given the increasing frequency and intensity of climate impacts, and noting the importance of governance.

As 2023 began we also saw another provocation for discussion about SRM governance with a small US-based start-up company Make Sunsets announcing that it has started to sell 'cooling credits' and loft a series of weather balloons into the stratosphere, with the aim of achieving cooling through releasing sulphur aerosols. As perhaps the first ever commercial proposition for deploying SRM, the announcement understandably attracted the attention of the scientific community, the media, and the government of Mexico - where further balloons were proposed for launch – who have since issued a statement about their intention to prohibit any such deployment in the country.

With further easing of COVID restrictions, C2G was able to engage in more in-person meetings in different parts of the world during the past quarter. This ability to engage face-to-face comes at an important time for delivery of C2G's mission with a strong focus on Capital engagement with governments and other actors in parallel to ongoing engagement around the UN in New York and the regions. As C2G enters its final year of operation, conversations about managing the risks from overshooting 1.5°C have become more common and widespread – making C2G's message about the need to strengthen governance for proposed interventions such as SRM more important than ever!

- Janos Pasztor, Geneva, February 2023

C2G Blog



Managing the Risks from an Increasingly Likely Overshoot of 1.5C – The role (if any) of solar radiation modification By Janos Pasztor

C2GTalk



How will global warming impact society, both economically and socially?

Professor at the Institute of Physics at the University of São Paulo, Brazil



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Why did the Saami Council oppose Harvard's SCoPEx experiment?

An interview with Åsa Larsson Blind, Vice-President of the Saami Council 12 December 2022

What are the challenges facing international governance of solar radiation modification?

An interview with Marcos Regis da Silva, Executive Director of the Inter-American Institute for Global Change Research 14 November 2022

C2GDiscuss

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solar radiation modification in the face of global warming overshoot On 8 December 2022, C2G explored youth perspectives on solar radiation modification (SRM) and its governance in the face of the

increasing likelihood that global warming temporarily exceeds (overshoots) the 1.5 / 2°C Paris Agreement limits.

Streaming audio content from C2GLearn, C2GDiscuss and C2GTalk is available on <u>Apple Podcasts</u> and <u>Spotify</u> in video on <u>YouTube</u>, and on the <u>C2G</u> and <u>Carnegie Council of Ethics in International Affairs</u> (CCEIA) websites, including interpretation from English into Chinese, French, and Spanish.

Events



Managing the risk of a temperature overshoot in the Asia-Pacific – the roles (if any) of Carbon Dioxide Removal and Solar Radiation Modification (recording available) Side-event during 7th Committee on Environment and Development, UN ESCAP coorganised with the Energy and Resources Institute (TERI) 29 Nov 2022



Keeping 1.5C Alive: Opportunities & Challenges for CO2 Removal and Storage in the Global South (recording available) Side-event during UNFCCC COP27 coorganized with CO2Geonet 9 Nov 2022

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temperature overshoot: the potential role of climate-altering techniques in Africa's just energy transition (recording available) Side-event during the 10th Conference on Climate Change and Development in Africa (CCDA-X) 25 Oct 2022

Publications

C2G Briefs

C2G	Carnegie Climate Governance Initiative	An institute of CARNEGIE COUNCIL for Aliva is COUNCIL for meaning a given	
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	y the Carnegie Climate Governance Initiat. national activities around solar radiation n		
	14 December 2022		
Summary			
action to limit glob solar radiation mod summarises the cur	cts intensifying and no credible pathway in sal warming below 1.5°C ² , additional clima diffication (SRM) ³ are coming under increas irrent status and developments in research, i engagement around SRM and its governan-	te response measures such as ing scrutiny. This briefing note ntergovernmental processes and	
(IPCC) published i effective in reducin understood and rele assessment, during SRM and its govern	ent of the science by the Intergovernmental in 2021-22 indicate that while some SRM tt ag some climate hazards, the risks or benefi evant governance is weak or missing ⁵ . In a 2022 other UN bodies published (or begur nance, including the World Meteorological d the UN Educational, Scientific and Cultu	echniques may be theoretically its they pose are poorly didition to the recent IPCC 1 preparing) reports addressing Organization, the UN Human	
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available in the p exhaustive or prio discussions, and	ded in this briefing note are shared in good ublic domain at the time of publication. Th ritized list but rather a general overview of l activities underway relating to SRM and it and corrections are welcomed. Please sen	is is not intended to provide an f the current status of research, ts governance internationally.	
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Supported papers

Status of global activities on solar radiation modification and its governance

14 Dec 2022

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Paper published by the UN Economic Commission for Latin America and the Caribbean (ECLAC) with support and authored contributions from C2G. Jan 2023

C2G Team in the Media

- 9 February <u>Geoengineering Startup Begins Releasing Sulfur Particles Into Atmosphere In Attempt</u> <u>To Stop 'Climate Change'</u>, GreatGameIndia
- 31 January <u>Amerykański startup chce zarabiać na ochładzaniu klimatu za pomocą siarki.</u> <u>Dlaczego to zły pomysł?</u> Ewelina Zambrzycka-Kościelnicka, National Geographic (Poland)
- 31 January <u>Geoengineering in Latin America may create more problems than it solves</u>, Hebdenbridge News
- 7 January Inventor in Baja is testing a plan to cool the Earth by mimicking a volcanic eruption Catherine Clifford, CNBC
- 28 December <u>Rogue geoengineering startup attempts to affect atmosphere despite warnings</u> Jerusalem Post
- 28 December <u>'Greenfinger': Environmentalist Seeking To Cool Planet By Polluting Stratosphere</u> <u>Likened to Bond Villain</u> Greg Wilson, Daily Wire
- 28 December Cette startup franchit une ligne rouge en modifiant le climate PresseCitron
- 27 December <u>Startup Claims It's Sending Sulfur Into the Atmosphere to Fight Climate Change</u> Lauren Leffer, Gizmodo
- 25 December <u>This Climate Startup's Rogue Plan to Manipulate the Weather is Horrifying</u>
 <u>Scientists</u> Maddie Bender, Daily Beast
- 24 December <u>A startup says it's begun releasing particles into the atmosphere, in an effort to</u> <u>tweak the climate</u> James Temple, MIT Technology Review
- 28 November La Casa Blanca está impulsando una investigación para enfriar la Tierra mediante geoingeniería solar Fuente

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- 25 November <u>Globálne otepľovanie nezvrátime. Vedci čoraz viac hovoria o riešení, ktoré je</u> poslednou nádejou pre ľudstvo Roland Tököly, Fontech
- 22 November <u>Dimming the Sun to Cool the Planet Is a Desperate Idea, Yet We're Inching Toward</u>
 <u>It Bill McKibben, The New Yorker</u>
- 17 November Tempting solution: cool the planet artificially Luigi Jorio, Swissinfo
- 5 November <u>Remove carbon-but do it equitably: Carbon removal mustn't become a new frontier</u> for injustice Fletcher Harper and Cynthia Scharf, Fortune
- 4 November <u>How to Meet Climate Targets: Leave No Economy Behind</u> Eduardo Porter, The Washington Post
- 13 October <u>White House is pushing ahead research to cool Earth by reflecting back sunlight</u> Catherine Clifford, CNBC

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trom the scientific and research community to the global policy-making arena, and to encourage societywide discussions about the risks, potential benefits, and ethical and governance challenges. C2G is Impartial: it is not for or against the research, testing or potential use of any proposed method or technology. These are choices for society to make.



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