Gruber, S.; et al. (2019): A Process Study on Thinning of Arctic Winter Cirrus Clouds With High-Resolution ICON-ART Simulations

"In this study, cloud-resolving simulations of a case study for a limited area of the hibernal Arctic were performed with the atmospheric modeling system ICON-ART (ICOsaedral Nonhydrostatic-Aerosol and Reactive Trace gases). A thorough comparison with data both from satellite as well as aircraft measurement is presented to validate the simulations. In addition, the model is applied to clarify the microphysical processes occurring when introducing artificial aerosol particles into the upper troposphere with the aim of modifying cirrus clouds in the framework of climate engineering."

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C2G2: Five thoughts on governance

"For us, governance is an amalgam of multiple and often quite diverse processes, some formal, some less so, involving people from across society in all sorts of ways. Sometimes this leads to formal conclusions, like laws. Other times, the impact is harder to define – yet could be no less important."

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C2G2: Geoengineering: the need for governance. February 2019
"Geoengineering refers to a broad set of methods and technologies that aim to deliberately alter the climate system on a sufficiently large scale to alleviate the impacts of climate change. While definitions and terminology vary, in line with recent scientific consensus this paper gives separate consideration to the two main approaches considered as geoengineering: Solar Radiation Modification (SRM) and large-scale Carbon Dioxide Removal (CDR)."

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Khaleej Times: Tampering with the weather could end in disaster

"To avoid crossing the 1.5°C threshold, the world must nearly halve its CO2 emissions by 2030, and reach net zero emissions by 2050. This will be possible only if we completely eliminate fossil fuels from the economy within the next few decades. Attempts to circumvent that reality will only make matters worse. We're at risk of doing just that. A growing number of people are now considering the once-unthinkable strategy of geoengineering our way out of the climate crisis."

LINK
"The fourth meeting of the UN Environment Assembly, in Nairobi from 11-15 March, could offer a significant moment on the road to international governance for large-scale carbon dioxide removal and solar radiation modification. Switzerland has indicated it will submit a draft resolution on “geoengineering and its governance”, and other countries are also strongly considering a joint submission."