

Delivery systems for SRM

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Climate Engineering is directed by accurate modelling of the climate. But climate modeling is full of uncertainty. Supposing we gain confidence in the modelling of climate and we are ready to try out some climate engineering at scale. Will it be possible to deliver, say, 10 million tonnes of SO₂ per year to an altitude of 20km? Or will it be possible to deliver enough salt water into the troposphere for cloud whitening? There is nothing trivial about the Engineering Systems required for SRM.

This paper will give an overview of the infrastructure and technology that would be needed to realize SRM proposals. This includes the design of new technology and the modification of existing technologies to (a) reflect sunlight, by surface albedo modification or space reflectors, and/or (b) deliver albedo-enhancing materials such as reflective aerosols and saltwater sprays.