

ACOM Seminar

Africa's climate response to solar radiation modification

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ABSTRACT

Despite the increasing climate risks associated with human-induced warming of the earth's surface, there are growing concerns about whether planned greenhouse gas (GHG) emission reductions will keep warming below 2°C. Other approaches to reduce global warming have been suggested for implementation in parallel with efforts to reduce GHG emissions. One approach, solar radiation modification (SRM), involves altering the earth's radiation budget through surface or cloud albedo enhancement or injecting reflective aerosols into the stratosphere to reduce the amount of incoming solar radiation reaching the earth's surface. This seminar will provide an overview of how climate model simulations of SRM scenarios, were used to assess the potential of some SRM on the future climate in Africa and the associated implication for human communities and key sectors of activity across the continent.