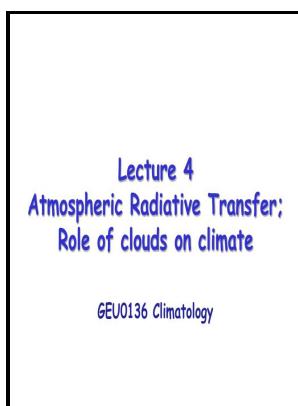


Atmospheric radiative transfer

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ACP

Within and above the cloud, the radiation reflected by the cloud enhances the local radiative heating by BC. The cooling effect of atmospheric BC counteracts the warming effect of BC particles in snow and can lead to a positive and negative total radiative forcing.

Atmospheric Radiation

In the gaps of vegetation there is no interaction of radiation and phytoelements. The linear coefficients are called PC Scores.

Atmospheric Radiative Transfer Modeling: a Summary of the AER Codes

Principles of radiative transfer; 6. Instead, it predicts PC scores, which have a much smaller dimension as compared to the number of channels Liu et al.

Atmospheric Radiation

Figure 2Schematics of the coupling of TARTES gray box and libRadtran blue box by exchanging the spectral surface albedo and the direct-to-global ratio. Radiative forcing varies with , , and the atmospheric of radiatively active gases - commonly known as - and .

Radiative Transfer

Shortwave radiative transfer in the atmosphere and ocean; Appendix A. The pollution layer observed during PAMARCMiP at 5 km and the BC layers of ARCTAS above 5 km altitude showed the largest relative impact of BC particles where nearly one-fifth and one-third, respectively, of the total solar heating is attributed to BC absorption.

Atmospheric radiative transfer modeling: a summary of the AER codes

Clouds reflect the incident solar radiation and, therefore, reduce the available radiation reaching the surface. For example, one methane molecule traps 23 times as much heat as one CO₂ molecule. The radiative transfer parameters can then be easily regenerated via a linear combination of a

truncated set of the most significant PCs.

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