



The diagram illustrates the interaction of light with different layers of the atmosphere. It is divided into four horizontal bands: a light gray band at the top, a medium gray band labeled 'Earth's atmosphere', a white band labeled 'cloud layer', and a dark gray band at the bottom labeled 'Lambertian surface'. A red line with an arrowhead at the top represents a light ray. It enters from the top left, passes through the light gray band, and enters the 'Earth's atmosphere' band. It then reflects off the boundary with the 'cloud layer', reflects off the boundary with the 'Lambertian surface', and finally reflects off the boundary with the 'cloud layer' again before exiting the top right. The labels 'Earth's atmosphere', 'cloud layer', and 'Lambertian surface' are positioned on the left side of their respective bands.

Earth's  
atmosphere

cloud layer

Lambertian surface