

Optical spectra in the earth blue sky and evening glow and optical thickness

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We can see a beautiful blue sky and evening glow on the earth. But we cannot necessarily see them in other stars. For example, since Venus has the very thick atmosphere, only red light will reach the Venus' surface. And Mars has the very thin atmosphere and rich dust particles. So in Mars it is said that the pink sky in the daytime and the blue sunset.

The color or brightness of the earth blue sky are not uniform. And in the evening glow time and space variation of them is more interesting. So we have observed optical spectra of the blue sky in several times and directions. And we have explained the variation of them by optical thickness.