

T13. Remote recognition of aerosol chemicals

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The recognition of composition and of microphysical characteristics of aerosol impurities is one of the most urgent tasks in atmosphere monitoring. Physical basics giving an opportunity of aerosol identification in remote sensing and some methods of solving this problem are considered. The concrete results of recognition and the dependence of recognition efficiency on the number of frequency channels and on signal to noise ratio in received multifrequency lidar signals are given.