

OCCURANCE OF DOUBLE STRATOPAUSE IN TEMPERATURE PROFILES OVER GADANKI

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A Rayleigh backscattering lidar has been in regular operation at the National Atmospheric Research Laboratory, Gadanki(13.5°N, 79.2°E), a rural site in the Tropical part of India, since 1998. Using this system, profiles of middle atmospheric temperatures were obtained in the height range covering 30 to 80 km. The derived height profiles of temperatures manifest presence of significant cooling at upper stratospheric heights. The temperature profiles for six years period was studied. The split in stratopause was observed in temperature profiles and reported.

Key words: back scatter lidar; cooling, stratopause.