

WAVE ACTIVITY MANIFESTATION DURING WINTER STRATOSPHERIC WARMING ON LIDAR OBSERVATIONS

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Middle atmosphere temperature measurements data for a winter months 2004-2009 obtained by Yakutsk Lidar (61.4 N; 129.7 E geogr.) are used in this work. The spatial and temporal characteristics and behavior of winter stratospheric temperature variations intensity have been studied. There is a relation between temperature variations and planetary waves with wavenumber 1 and 2 during winter stratospheric warmings discussed. Also, considered cases of detections the middle atmosphere temperature variations closed with internal gravity waves. The work is partly supported by RFBR grant 09-05-98573.

Middle atmosphere, Temperature, Stratosphere, winter stratospheric warming, Lidar, Planetary waves, Internal gravity waves

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