

Gravity waves in the mesosphere: questions to be solved

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Gravity waves are known to play key role in forming general circulation and latitudinal temperature structure in the middle atmosphere, especially in the mesosphere and lower thermosphere. It is sometimes stressed that short period gravity waves are more important because of their ability of transporting horizontal momentum upward. However, inertia gravity waves can transport significant amount of kinetic and potential energy and they create turbulent eddy easily, which plays important role of vertical mixing

due to eddy diffusion. In this paper, we re-visit characteristics of internal and inertia gravity waves and propose issue to be solved on gravity wave in the mesosphere and lower thermosphere.

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