

## Gravity propagation

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There are some unknown basic problems relative to the propagation of gravity waves (GW) to the upper- atmosphere. Those are about instability, non-linearity and viscosity which affect seriously the propagation of GW beyond the mesosphere.

Although certain approximation seems successful to solve partially the problems, we are fairly ignorant about the integrated behaviors of the effects Here it seems significant to discuss the basic physics of the problem. We point out that ground-based radar and lidar observation, in situ probe observation and GCM simulation may help understand the problems.