

Unit 20 ATM401, ATM601 and CHEM601**Application, analysis, and evaluation**

1. All students: Assume a zonally averaged temperature gradient of $1K$ per $111km$ and a zonal component of the geostrophic wind at the ground close to zero. Determine the mean zonal wind at $250hPa$ under the assumption of dry air. How would you call this level?
2. ATM601 students: Apply Reynolds averaging to the equation of water vapor.