

Unit 2 Mesoscale Dynamics ATM478/678

1. All students: On a day, the atmospheric stability is $N=0.02/s$. Wind flows over a series of ridges with a horizontal wavelength of 10 km. Determine the mean wind speed that causes $\frac{N^2}{\bar{u}^2} = k^2$. This wind speed is often called critical wind speed.