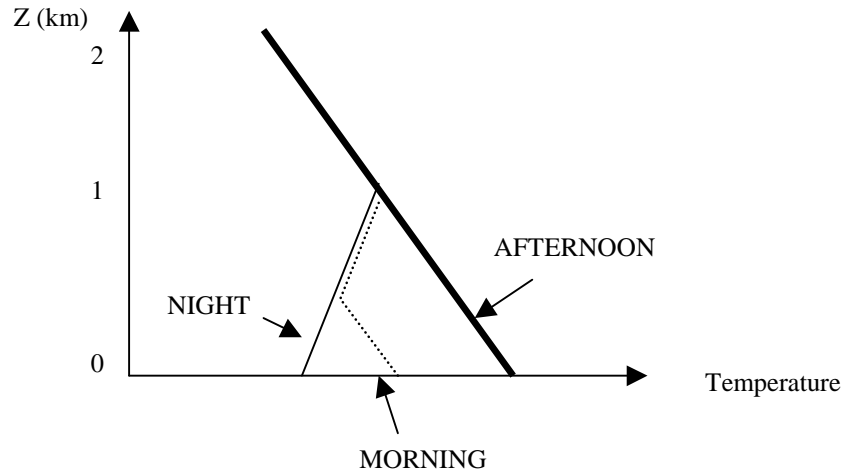


Ticket 11.

Consider the following plot of temperature vs altitude in the near surface:



1. Why does the surface cool more quickly than the atmosphere at night? [think about the spectral properties of the emissivity].
2. Surface emissions stay close to the ground for most of the morning. Why? How might this influence air quality?