

Homework - Chapter03 - Air Temperature

- 1) Explain why the warmest time of the day is usually in the afternoon, even though the sun's rays are most direct at noon.

- 2) On a calm, sunny day, why is the air next to the ground normally much warmer than the air several feet above?

- 3) Explain how radiational cooling at night produces a radiation temperature inversion.

- 4) What weather conditions are best suited for the formation of a cold night and a strong radiation inversion?

- 5) Explain why the daily range of temperature is normally greater
 - a) in dry regions than in humid regions and
 - b) on clear days than on cloudy days.