

Variations in length of day with latitude.

Temperate climates experience greater seasonality than tropical climates because of greater variations in daylight through the year. Select five cities or locations that lie on approximately the same longitude, but range in latitude from central America to Canada, and calculate the length of day for each locality for the first of each month.

- a) Draw a plot for each locality, showing how the length of day varies throughout the year.
- b) Now compare the summer and winter temperatures for these sites. Where is the difference between summer and winter temperatures the largest, where is it the smallest. Do you have an explanation for this behavior?

P.S. Finding the length of day data as well as the climate records for your locations is part of the game and you should explain how you got these data (references, etc.)