Cloud Cover

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Data

The atmos data set resides in the nasaweather package of the R programming language. It contains a collection of atmospheric variables measured between 1995 and 2000 on a grid of 576 coordinates in the western hemisphere. The data set comes from the 2006 ASA Data Expo.

Some of the variables in the atmos data set are:

- cloudlow The mean percent of the sky covered by clouds at low altitudes.
- cloudmid The mean percent of the sky covered by clouds at mid-range altitudes.
- cloudhigh The mean percent of the sky covered by clouds at high altitudes.

You can convert the temperature unit from Kelvin to Celsius with the formula

$$celsius = kelvin - 273.15$$

And you can convert the result to Fahrenheit with the formula

$$fahrenheit = celsius \times \frac{9}{5} + 32$$

Cleaning

For the remainder of the report, we will look only at data from the year 2000. We aggregate our data by location, using the R code below.