

Brittany Ciancarelli
ATMO 529 – Statistics
Dr. Castro

The data oriented website I found is from a branch of NOAA called the National Severe Storms Laboratory (NSSL). This website has an archive of both surface and upper-air historical weather data worldwide. This is observational data gathered from stations on the ground and through radiosondes, which provide the pressure (hPa), height (m), temperature (C), dewpoint (C), relative humidity (%), mixing ratio (g/kg), wind direction (degrees), wind speed (knots), potential temperature (K), equivalent potential temperature (K), and virtual potential temperature (K). You can use this site to not only download data but to plot maps and time series. This is daily data with some of the surface data being available from 01-01-1933 to the present. The upper-air data is available from 01-01-1948 to the present. Each day it is updated and you can plot from a certain date to a certain date. You can get data or plot with this website going continent by continent or by putting in specific latitude and longitude coordinates. Surface and upper-air data before 1998 were both obtained through other sources. The surface data came from the NOAA/NCDC. The upper air data came from North American Radiosonde database created by the Forecasted Systems Laboratory in Boulder, CO. Both are now collected and archived from and operational datastream collected by the NOAA/Storm Prediction Center.