Forecasting the weather begins by continuously observing the state of the atmosphere, the ocean, and land surface.  The Open weather map provides the framework for an evolving worldwide suite of observing systems, such as satellites, radars, and surface weather observations that aid in monitoring these conditions. The skill of a forecast refers to how accurate the forecast is compared to some reference or baseline prediction, such as a forecast compared against climatology or persistence of current conditions.  The predictability of meteorological events differs based on the size and timing of the event

The temperature plot explains the current temperature across all cities in each country. Here we take temperature unit in metric which will measure the temperature in Celsius. I am considering four current weather trends which are humidity, temperature, windspeed, and cloudiness across different countries based on longitude and latitude. We can see all the observations in plots.