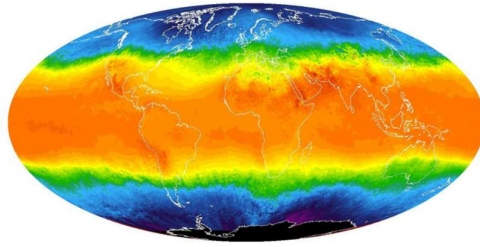


## Project: Explore Weather Trends

In this project data is extracted from a database and compared in a line chart to visually observe it.



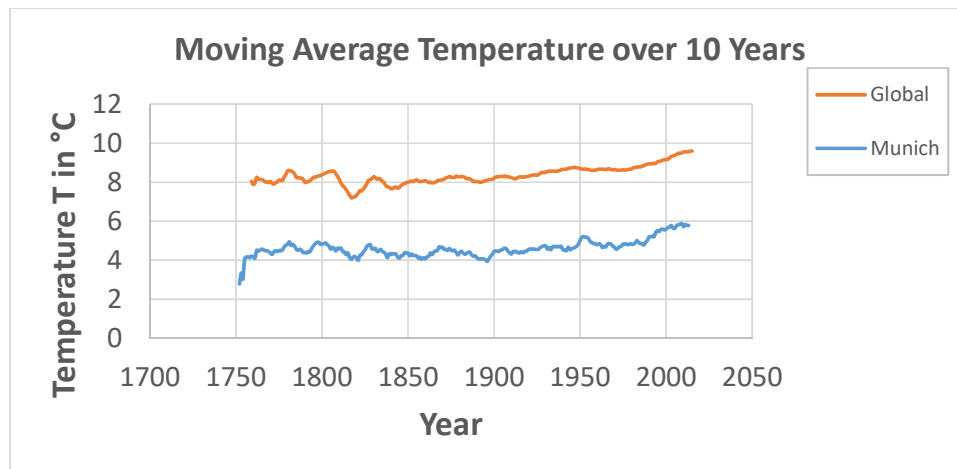
Query to get the global average temperature:

```
SELECT year, avg_temp FROM global_data
```

Query to get the average temperature from Munich/Germany:

```
SELECT year, avg_temp FROM city_data where city='Munich'
```

For additional observations the data is important into Microsoft Excel. The command “Text in Spalten” (German for Text to columns) is used to transform the data into columns. To calculate the moving average temperature over 10 years the command “= MITTELWERT(B2:B11)” (German for Average) is used and extended over the rows. Finally a plot is made and labeled as shown below.



### Observations:

- Munich is about 4°C colder than the global temperature.
- The global temperature rise about 2°C over the past 100 years.
- Before 1900 the temperature was more or less constant.
- About the year 1825 there was short decline in temperature.