Observable trends from weather data:

1. Variation of temperature showed prominent relation with the change of latitude. As we move further from equator region to polar region temperature gradually decreases.
2. In northern hemisphere, there is a slow increase in cloudiness and wind speed from equator to polar region.
3. In southern hemisphere, there is no prominent changes in wind speed and cloudiness with changes in latitude.
4. Changes in humidity did not show any noticeable variation with latitude in both hemispheres.