

Klimatische Grundlagen

Klimafaktoren

Weather and Climate

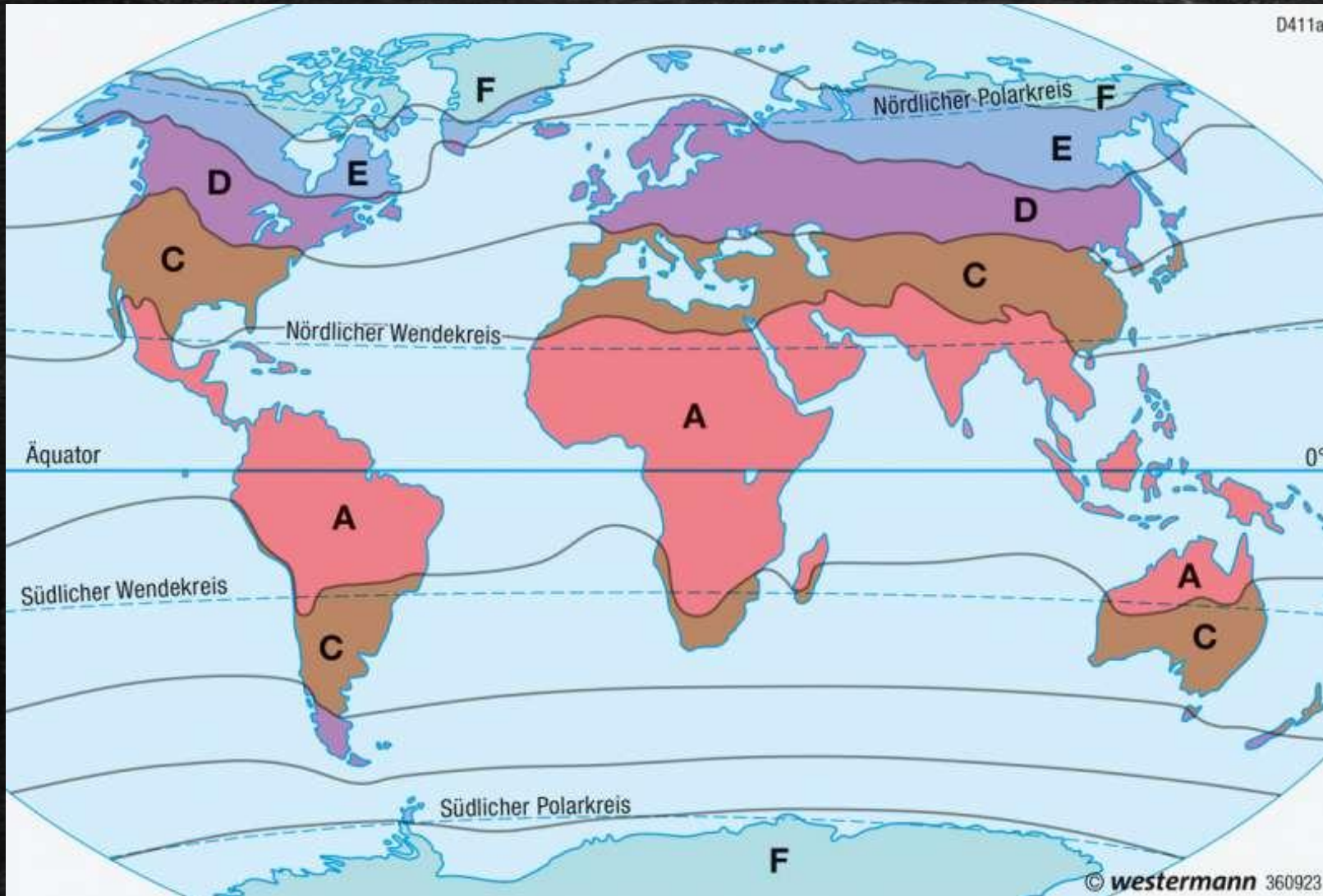
Weather

- Short term (hours/day)
- Local (city, parts of a city)
- Rapid changes

Climate

- Long term (years/decades)
- Regional (parts of continents)
- Slow changes

The World's Climate Zones



F Polarzone

E Tundra

D Gemäßigte Zone

C Sub-Tropen

A Tropen

Factors Affecting Weather and Climate

Elements

- Radiation
- Air Pressure
- Humidity
- Cloud formation
- Precipitation
- Wind

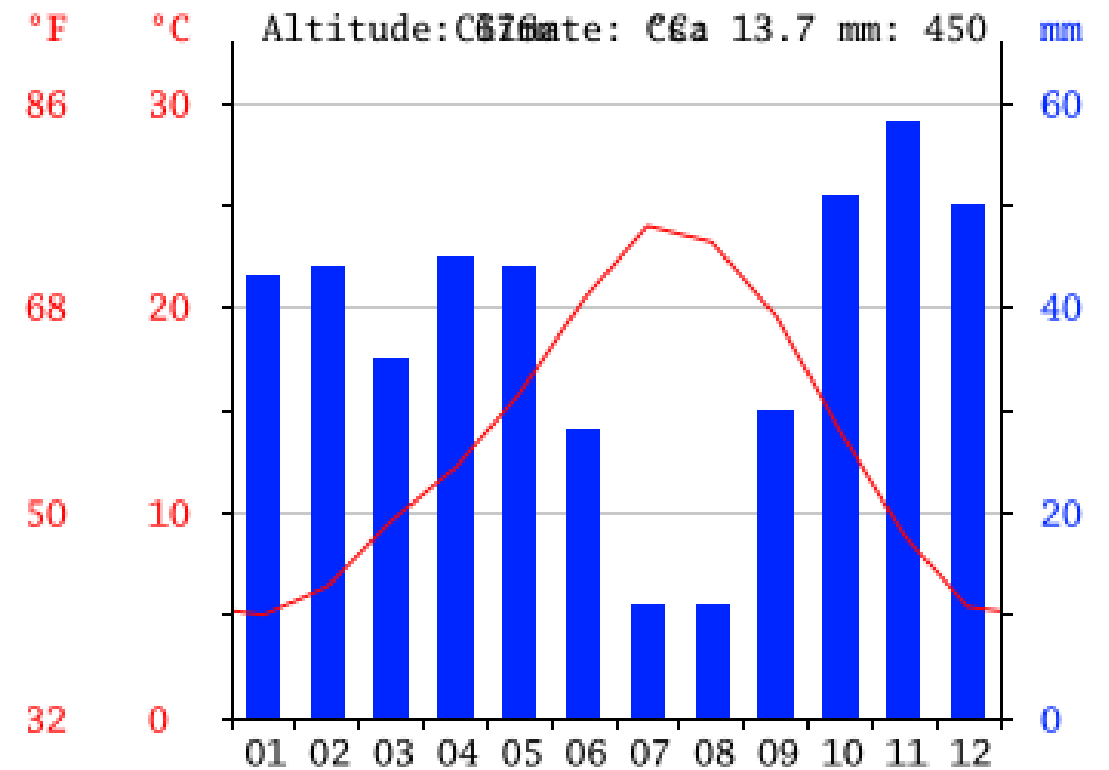
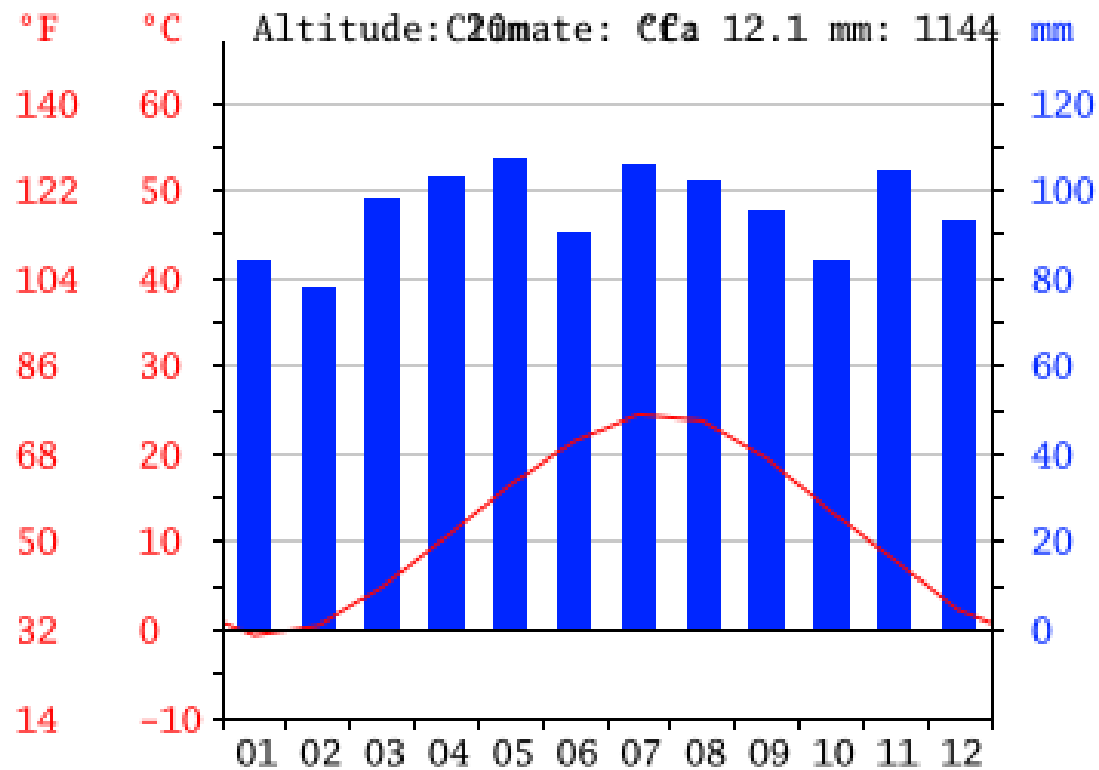
All the elements can be measured

Factors

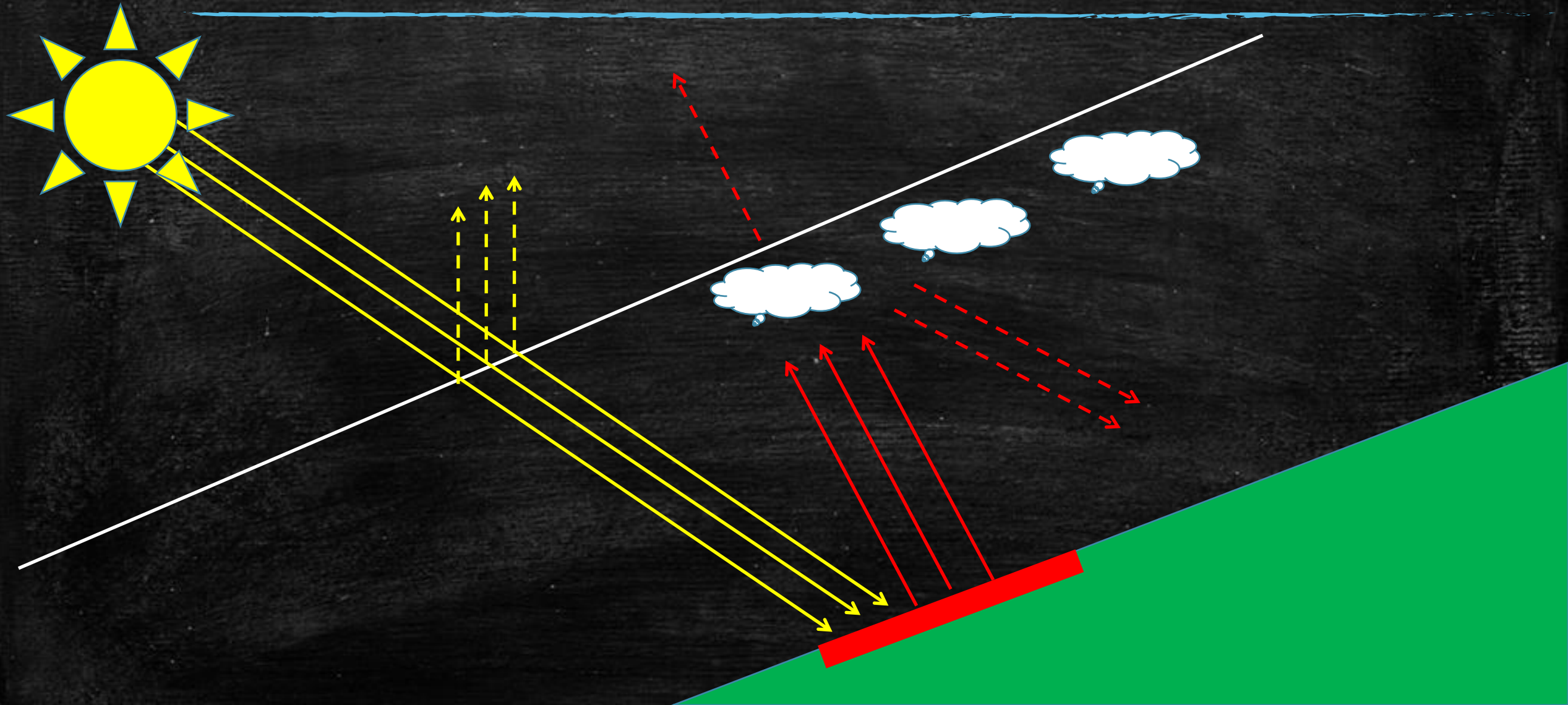
- Geographic Area
- Elevation
- Location (water/land)
- Vegetation
- Exposure

All the factors are naturally given

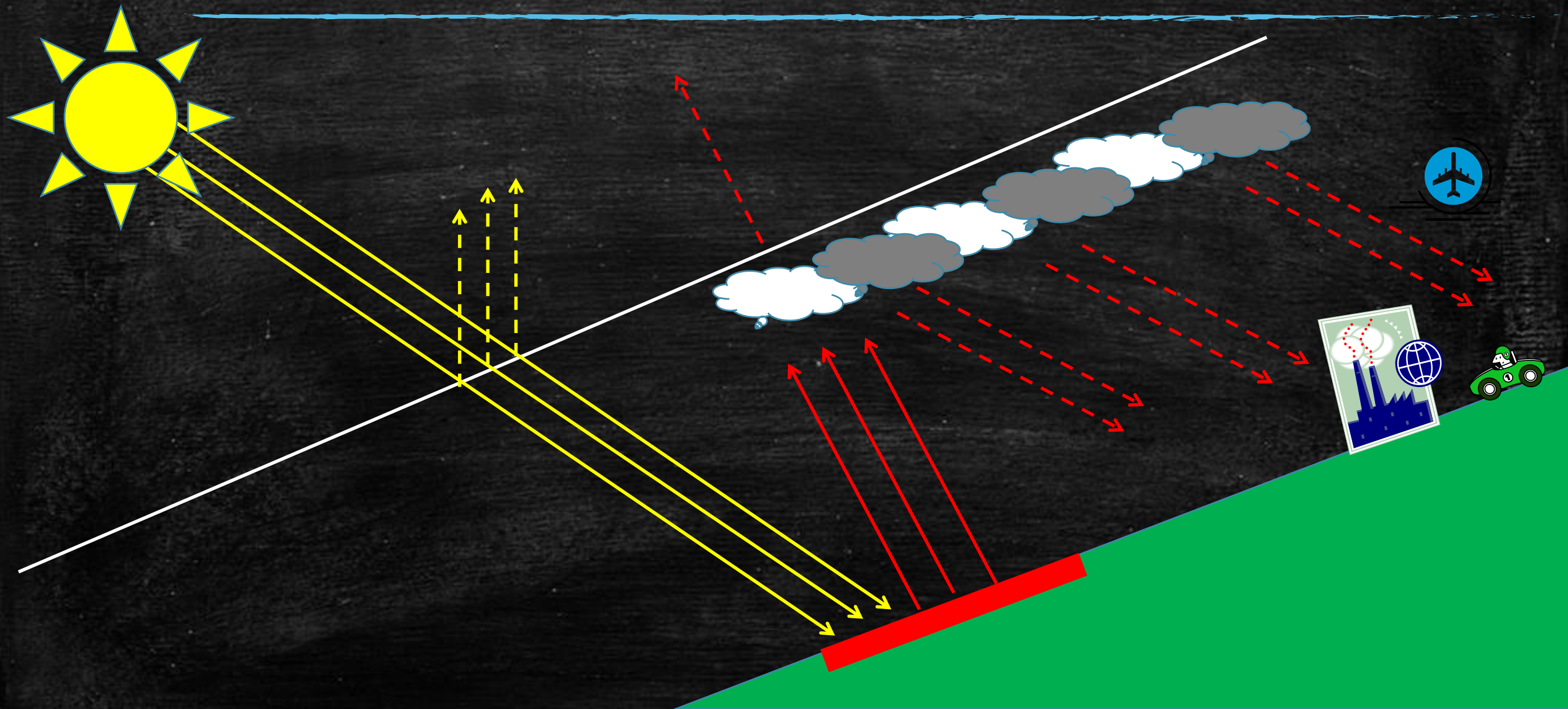
Climate Charts (Klimadiagramme)



Greenhouse Effect – man made?



Greenhouse Effect – man made?



Sources

- <https://diercke.westermann.de/content/erde-thermische-klimazonen-978-3-14-100803-6-244-1-1>
- <https://de.climate-data.org/nordamerika/vereinigte-staaten-von-amerika/new-york/new-york-1091/>
- <https://de.climate-data.org/europa/spanien/autonome-gemeinschaft-madrid/madrid-92/>