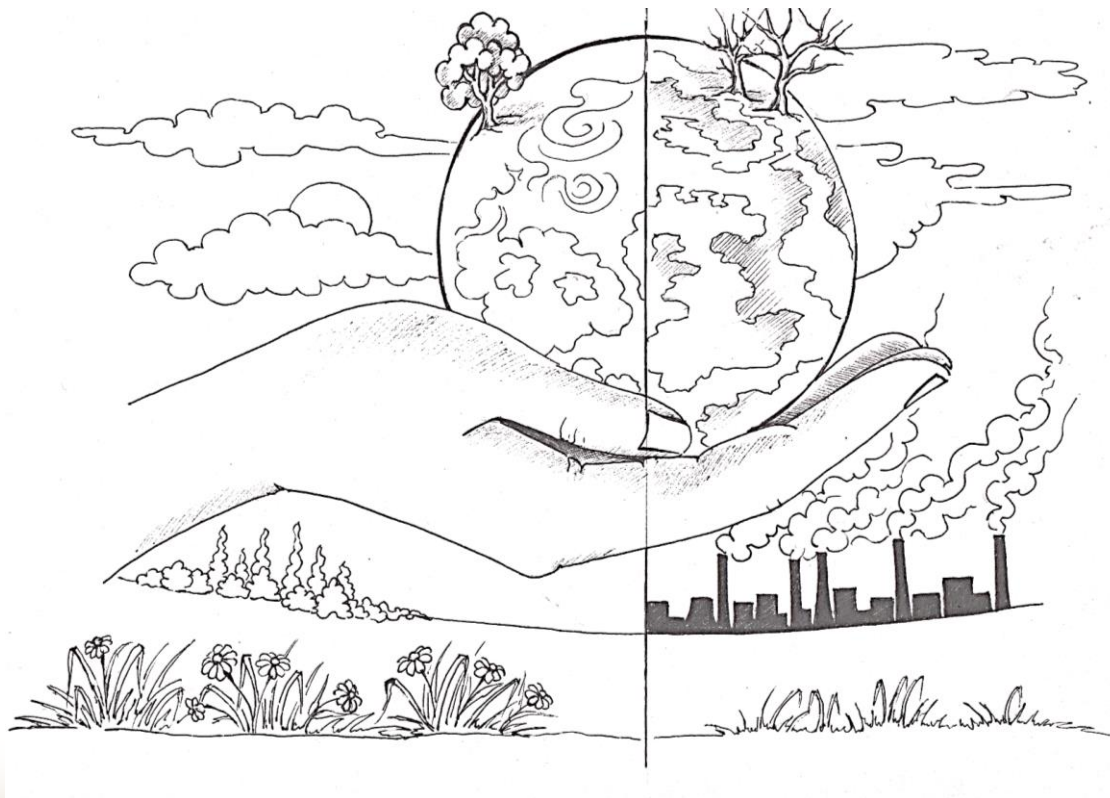




# Forest Management in a Changing Climate

Place, Date





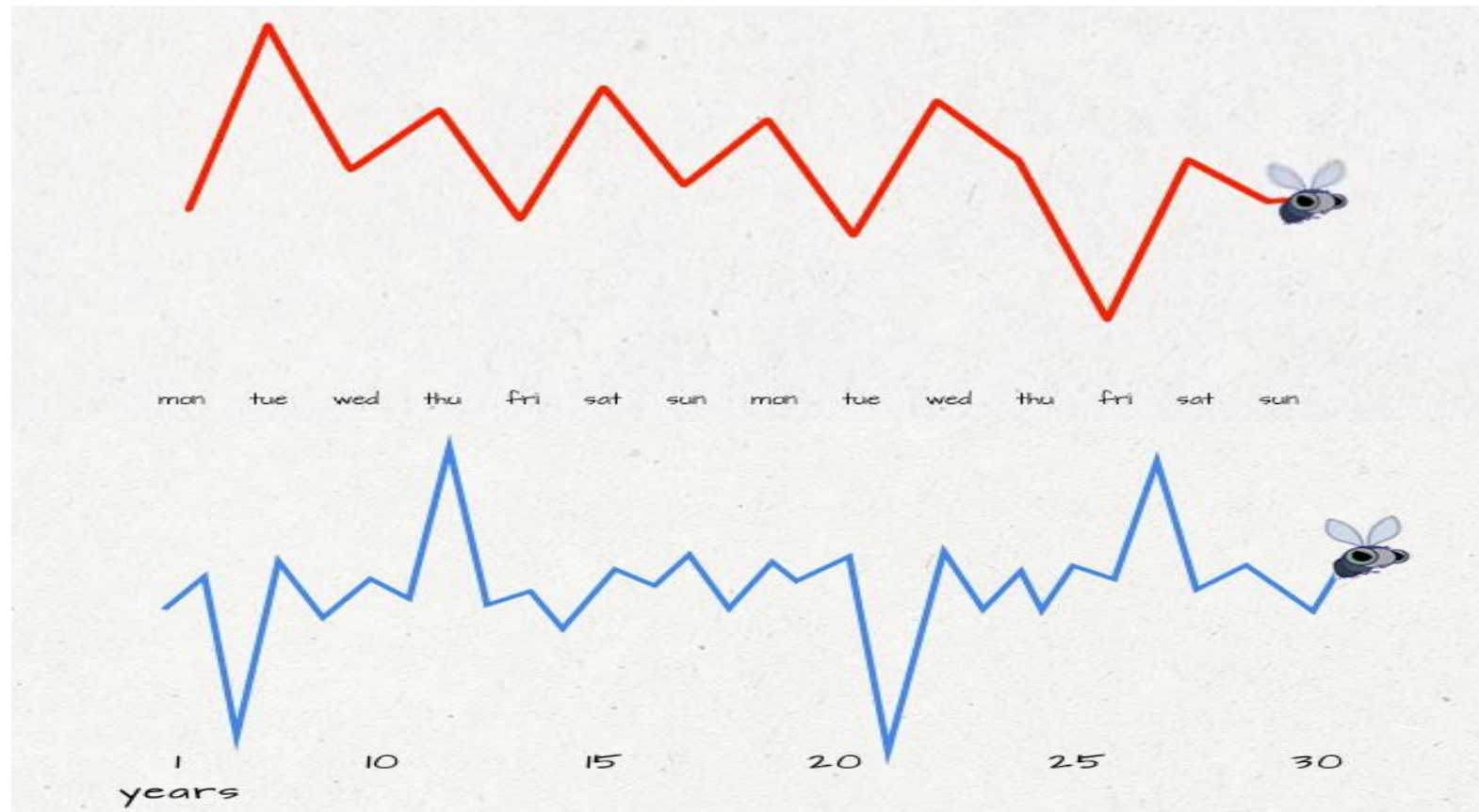
# Learning Outcomes

Participants gain understanding of the:

- difference between weather and climate
- factors of climate change
- role and functions of the forest
- climate change impacts on forests



# Weather vs. Climate



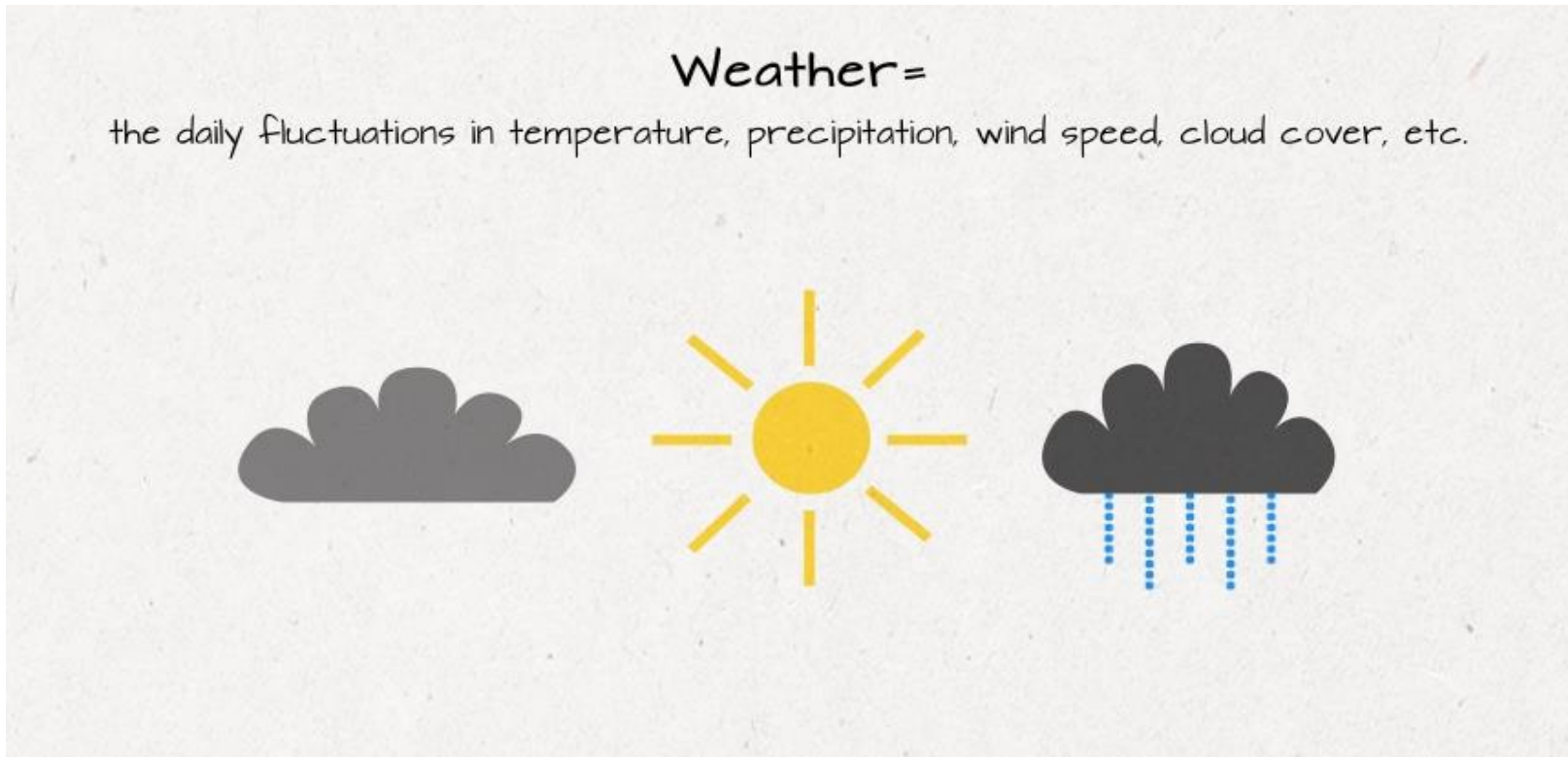


# Weather



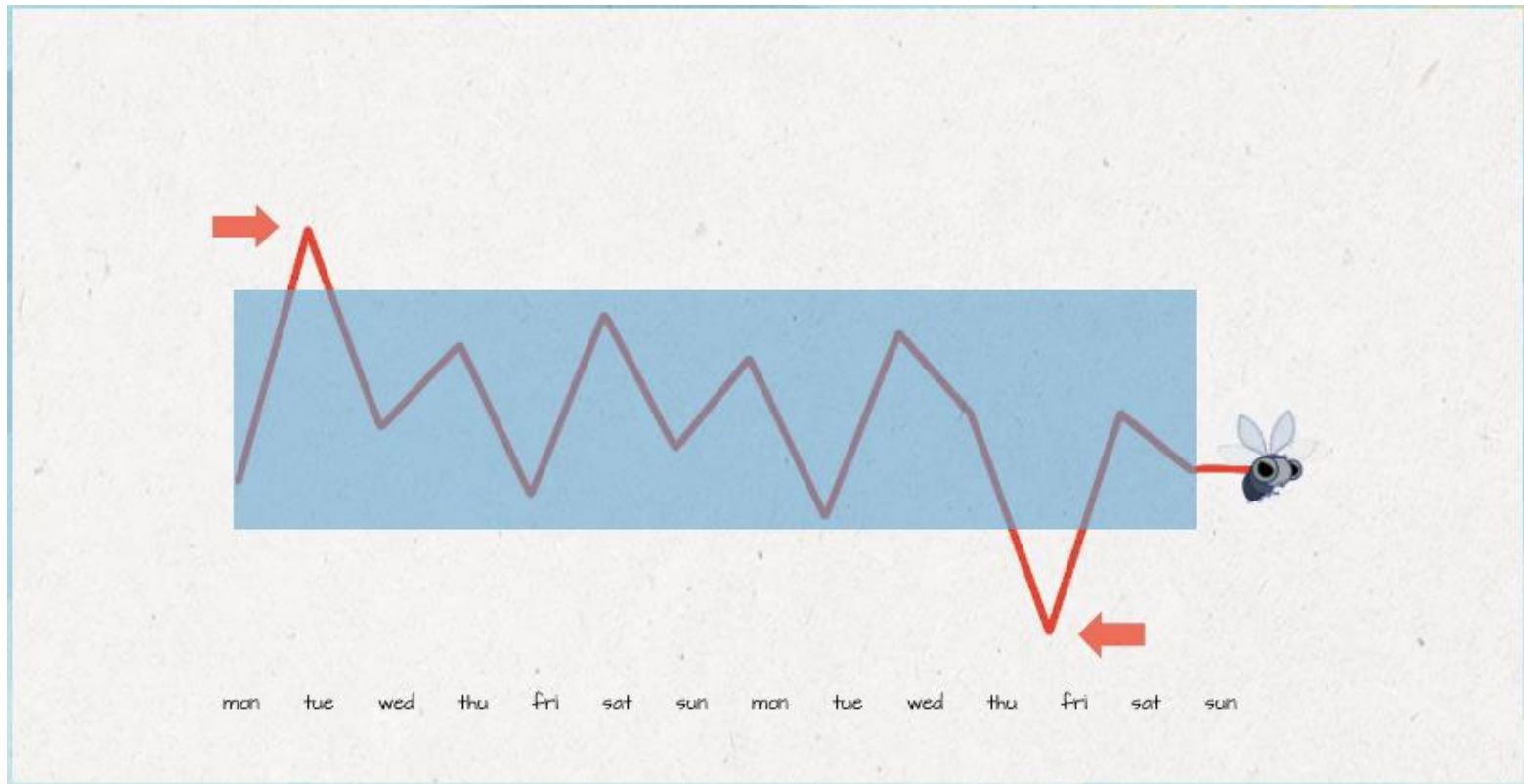


# What is Weather?





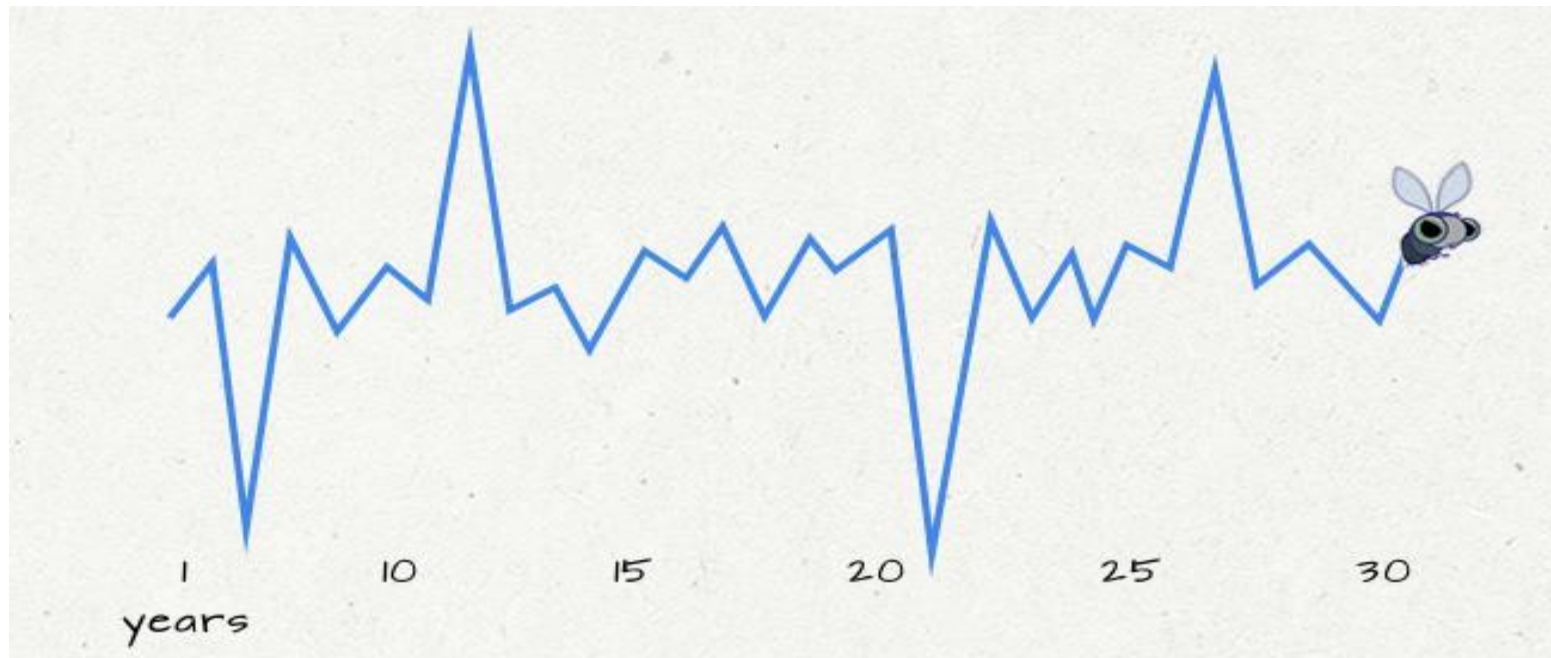
Weather change: There are colder and warmer days, which is the norm, if the averages in long run do not change





# What is Climate?

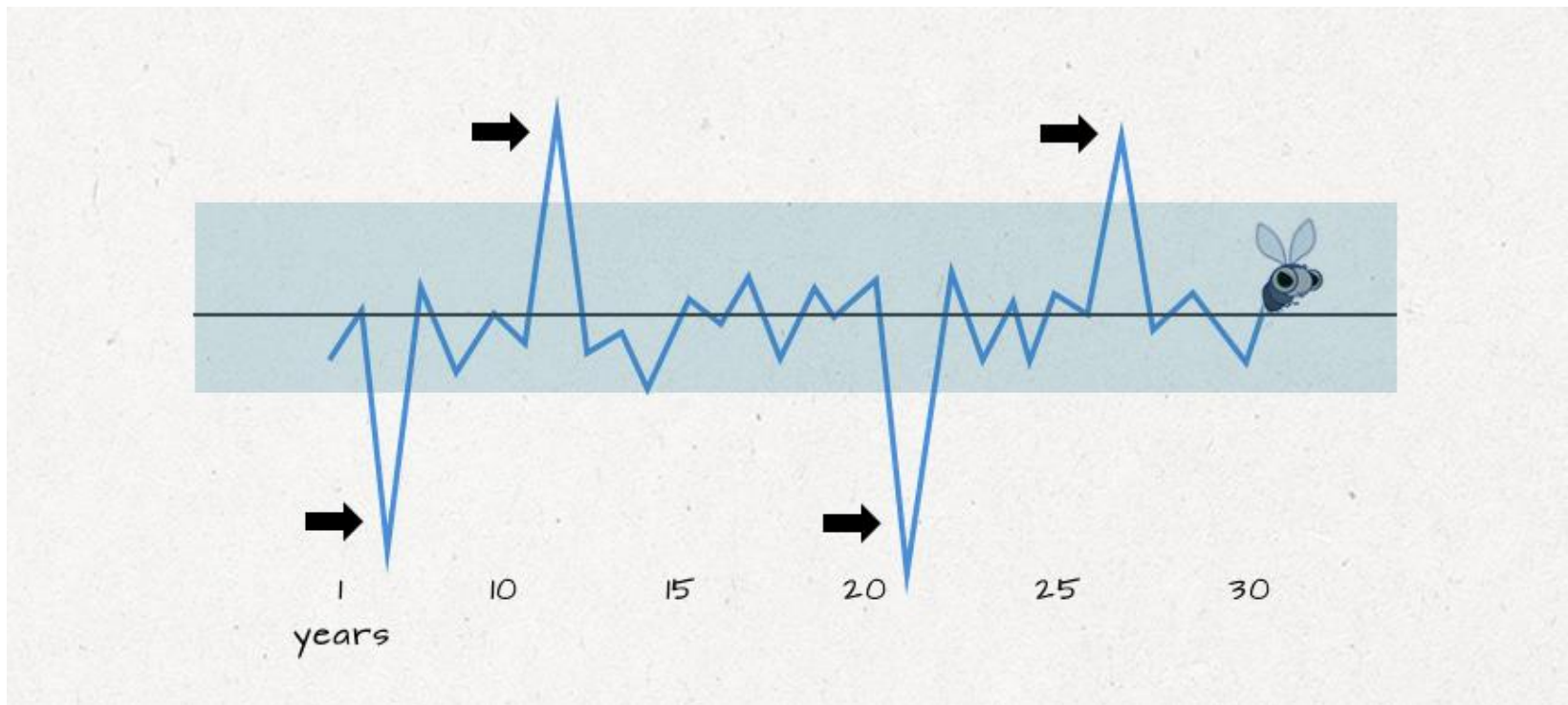
Climate is the "average" weather observed during a long period of time (30 years)





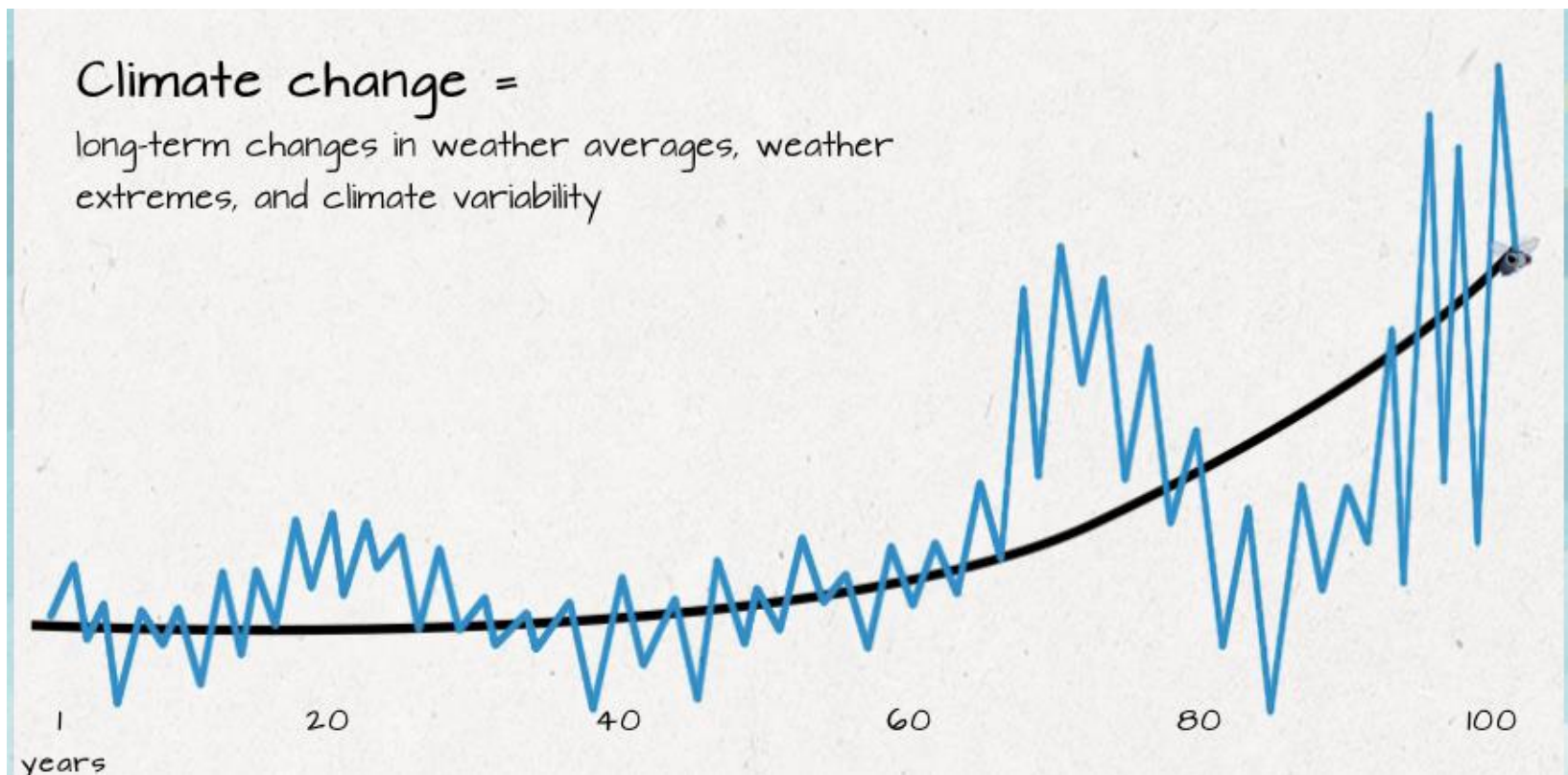
## Climate change:

There are colder and warmer years, which is the norm if the averages in the long-term period do not change.



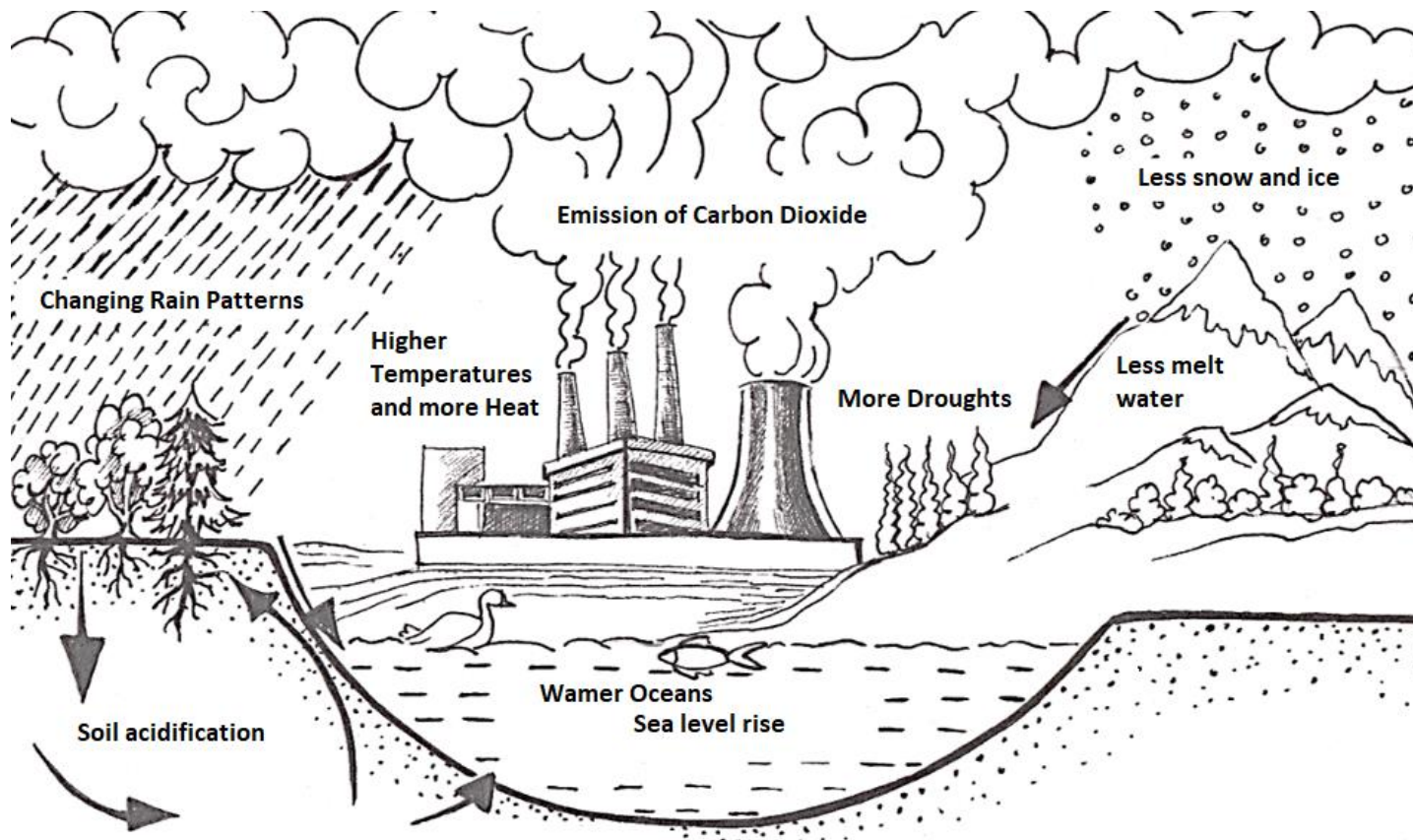


## Definition of Climate Change





# Why is climate change happening?

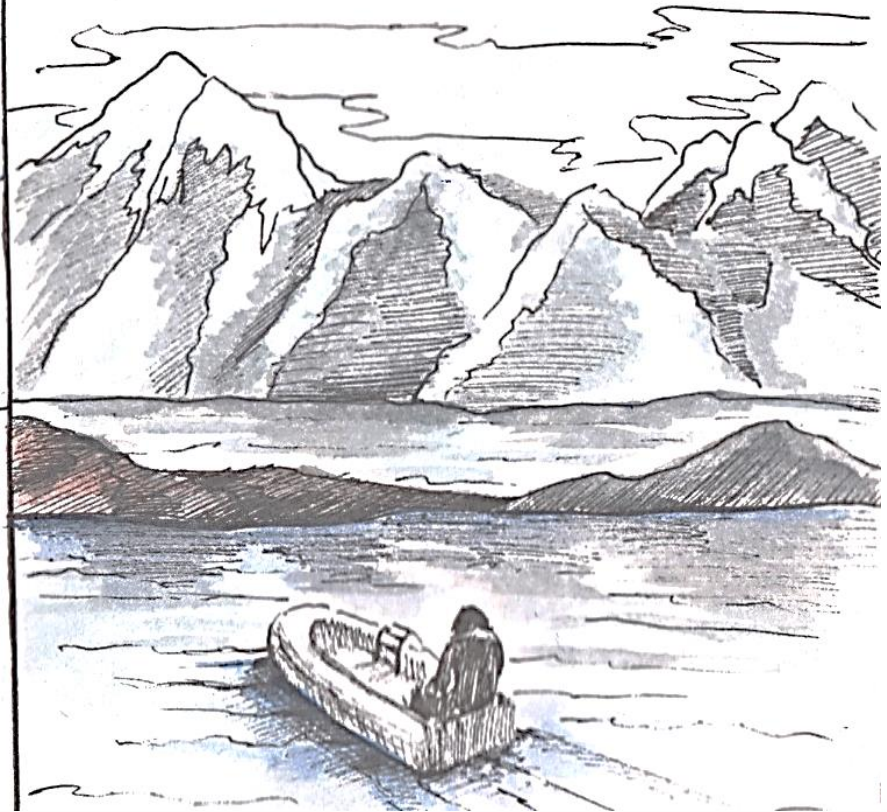




# Before

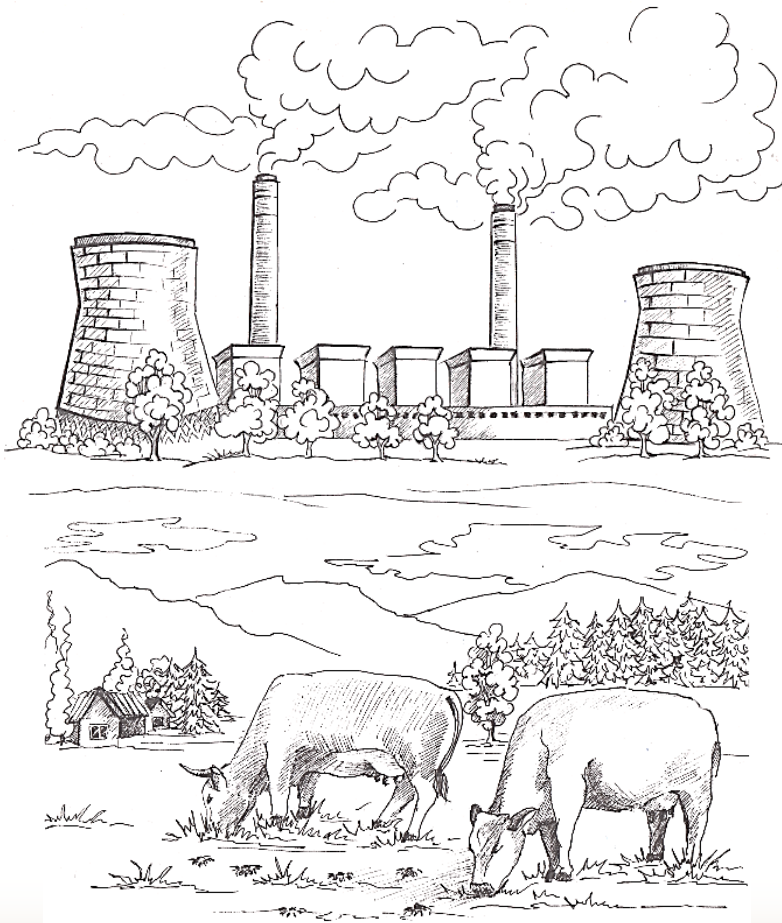


# Now





# Human activities that cause climate change.





## Effects of climate change in Tajikistan

- Higher temperatures
- Changes in Rain patterns
- Glaciers are melting
- Less snow in winter → Decrease in melt water
- Change in humidity level
- Changes in wind speed





## Role and function of the forest

- Apart from the economic benefits (firewood and non timber forest products), forests provide the following functions:
- Reduction and Prevention of soil erosion
- Prevention of mudflows
- Prevention of shore washout and flood protection
- Moisture retention in soil → Improvement of productivity of arable land
- Nutrient cycling and soil formation
- Climate regulation
- Provision of fresh air



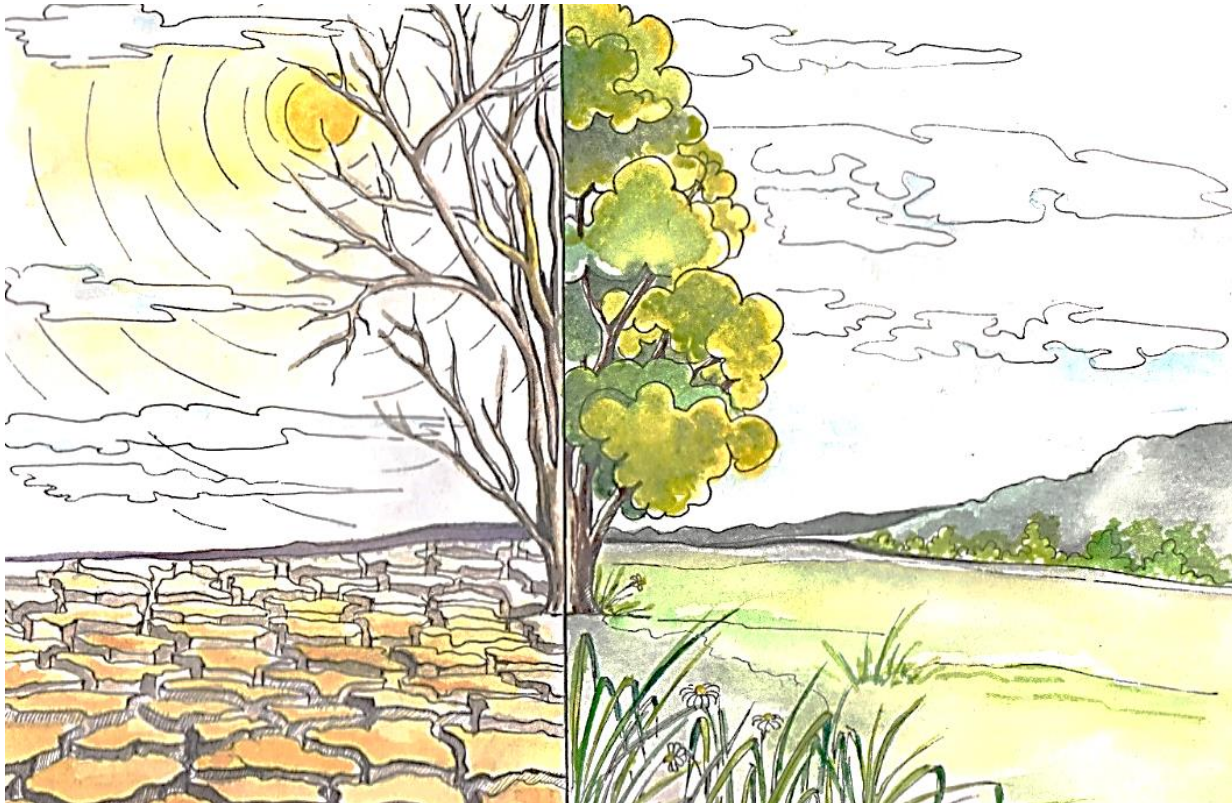
# Impact of climate change on forest

- Loss of biodiversity
- Spread of diseases and pests
- Decrease in productivity
- Disappearance and extinction of species
- Decrease in habitat for forest species
- Degradation of forests due to less water





# Thank you for your attention!





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