

Illustration 1.1 - Weather versus climate

Weather vs Climate

WEATHER

What's happening right now
or over a short time



Rainy day



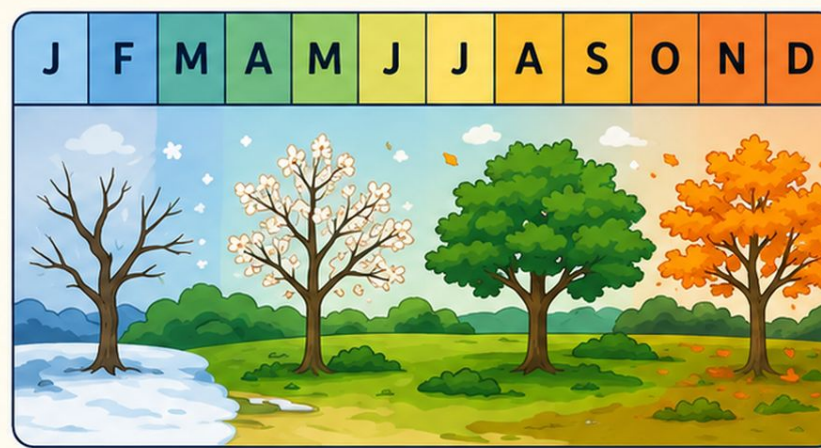
Sunny day



Windy day

CLIMATE

The long-term pattern of weather,
usually over many years



Winter

Spring

Summer

Autumn

Weather changes day by day. Climate is the pattern you see when you zoom out.

Illustration 1.3 - Observing weather and climate

How we observe weather and climate

Scientists collect data from land, sea, sky and space to understand what is happening now and how the climate is changing.

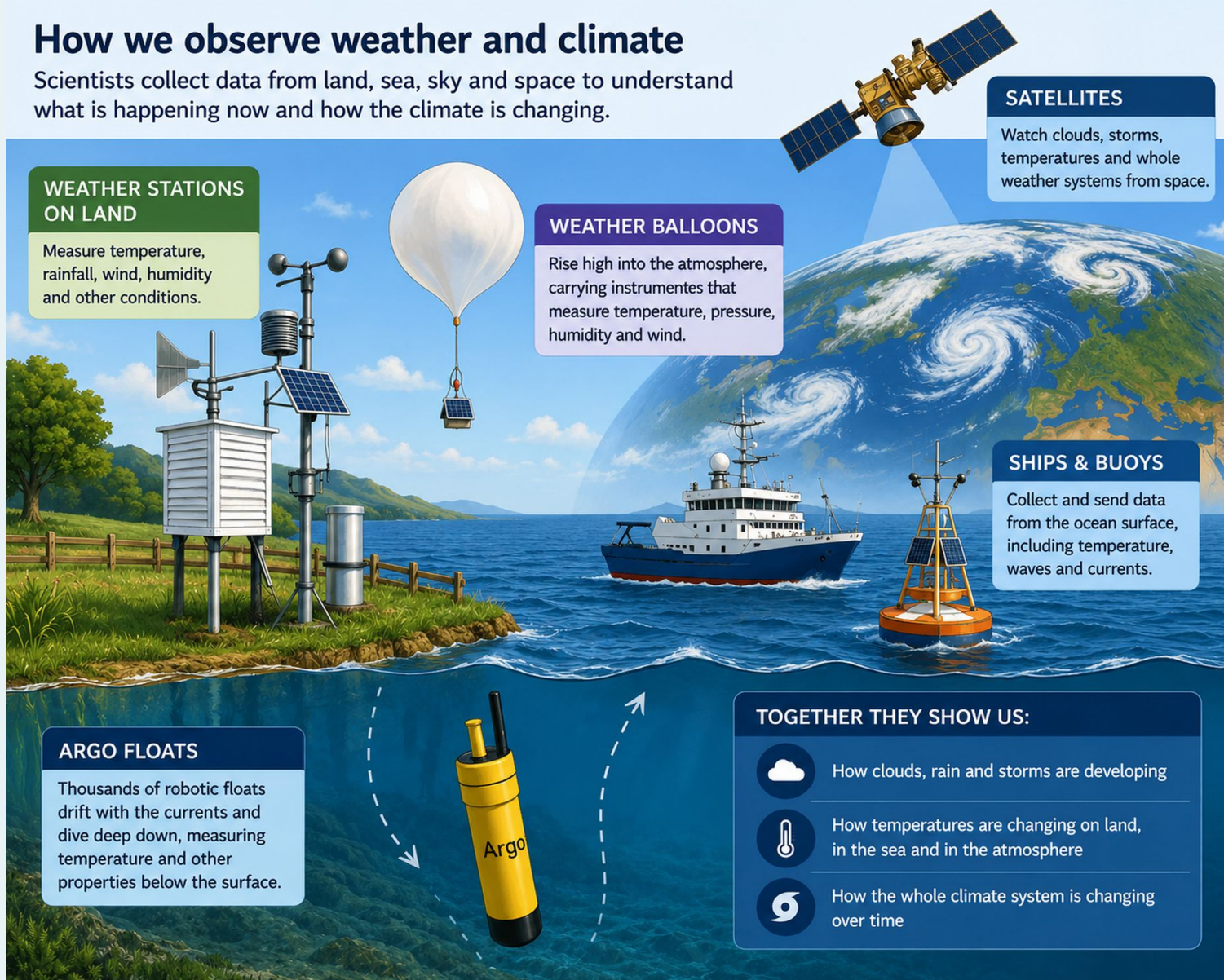
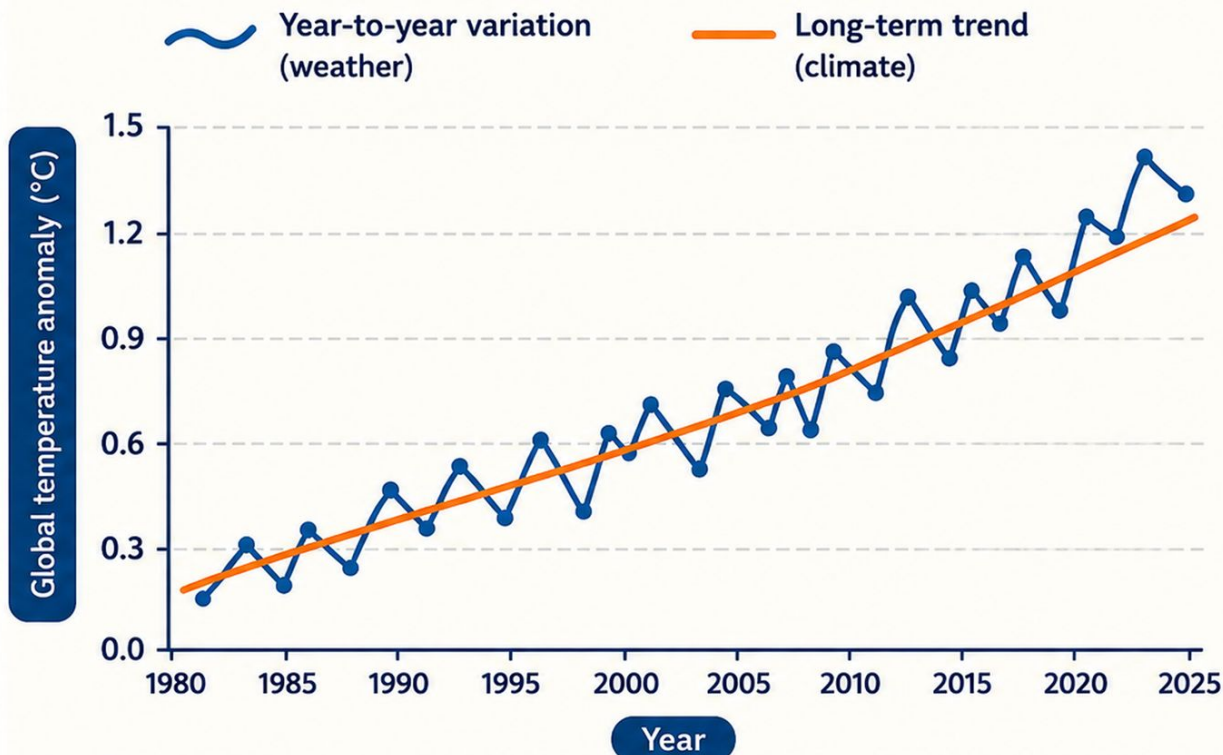


Illustration 1.2 - Climate trend

Weather Ups and Downs, Climate Trend

Year-to-year temperatures can jump around, but the long-term trend can still rise.



What this shows:

- Some years are warmer than others, and the blue line moves up and down.
- But when scientists look across many years, they can see a clear long-term warming trend.



How to read this graph: The y-axis shows “global temperature anomaly (°C)”. This means how much warmer (positive) or cooler (negative) each year was compared with a baseline average from the late 20th century.

Source: Based on observations from NASA and NOAA global temperature records.

Illustration 1.4 - Early warning saves lives



Better prepared, lives saved.

When we understand the weather and act early, we can protect people and save lives.

Around the world, scientists track storms, floods, heatwaves and droughts using satellites, radars and computers.

Early warnings give communities time to prepare—to move to safer places, protect homes, stock up on supplies and look after each other.



BETTER INFORMATION. EARLY WARNINGS. STRONGER COMMUNITIES.

These simple steps turn science into safety—and save thousands of lives every year.