

# Describing ecosystems

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Bauhaus-Universität Weimar

# Describe abiotic factors

- Dimensions
- Temperature
- Water presence
- Light
- Wind
- Soil composition
- Nutrients through the air
- Nutrients through the soil

# Describe biotic factors

- Leaves
- Branches
- Lichens
- Mushrooms
- Snails
- Animals
- Rainworms
- Woofs

# Methods you used to collect abiotic informations

No abiotic informations were collected

# Methods you used to collect biotic informations

- Pictures
- Samples of living being
- Samples of water
- Identification apps
- Guessing
- Licking the earth
- Experience/knowledge

# Methods to compare informations

- Apps that use machine learning to recognise living beings against photo databases
- AI - ChatGPT
- Microscopy and comparing with online pictures
- Guides and books
- Search against NCBI databases

# Methods you would use to collect abiotic informations

- Thermometer / weather app
- pH meter
- Sound recording
- Hygrometer
- Luxmeter
- Wind-meter / weather app
- Caliber for gravel dimension
- Multimeter / electrical potential in the air
- Turbidimeter
- Tests for chemicals / nutrients

# Methods you would use to collect biotic informations

- Taking photos of plants / animals
- Taking samples for identification and comparison
- Videos of animal traps
- DNA analysis / Barcoding / Sequencing
- Light sensors to count insects
- Insect traps
- Magnifying lens / Digital microscope + Phone
- Binoculars / telescope