



State of knowledge on climate and biodiversity and actions that can be taken to enhance land and ecological management and services

In adapting to climate change and climate variability, what are we adapting *to*?

- ✧ What are the biophysical factors of ecosystem components that are vulnerable to climate change, and what climate-related conditions underlie such vulnerability:
 - ✧ Reproductive phase
 - ✧ Growth & development phase
 - ✧ Climate conditions favoring pathogens and predators
 - ✧ Timing & time scales of events & conditions
 - ✧ What are the physical factors
- ✧ Orographic conditions
 - ✧ Slopes
 - ✧ Coastal zone - storm surge
- ✧ Vulnerability to inundation
- ✧ Natural water and nutrient storage in soils



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**Special attention to critical factors,
thresholds, and non-linear processes**

- ✧ Hydrological cycle
 - ✧ Phase changes
 - ✧ Biophysical thresholds
 - ✧ Non-linear processes (saturation vapor pressure)
- ✧ Temperature
 - ✧ Biophysical failure points
 - ✧ Freezing/melting points
- ✧ Attention to model biases