

What is plant ecophysiology?

Jan 22, 2019

Ecophysiology = Ecology +
Physiology

Ecology: definition

The study of the relationships between organisms and:

1. Each other
2. The environment

Ecology: definition

The study of the relationships between organisms and:

1. Abiotic environment

2. Biotic environment

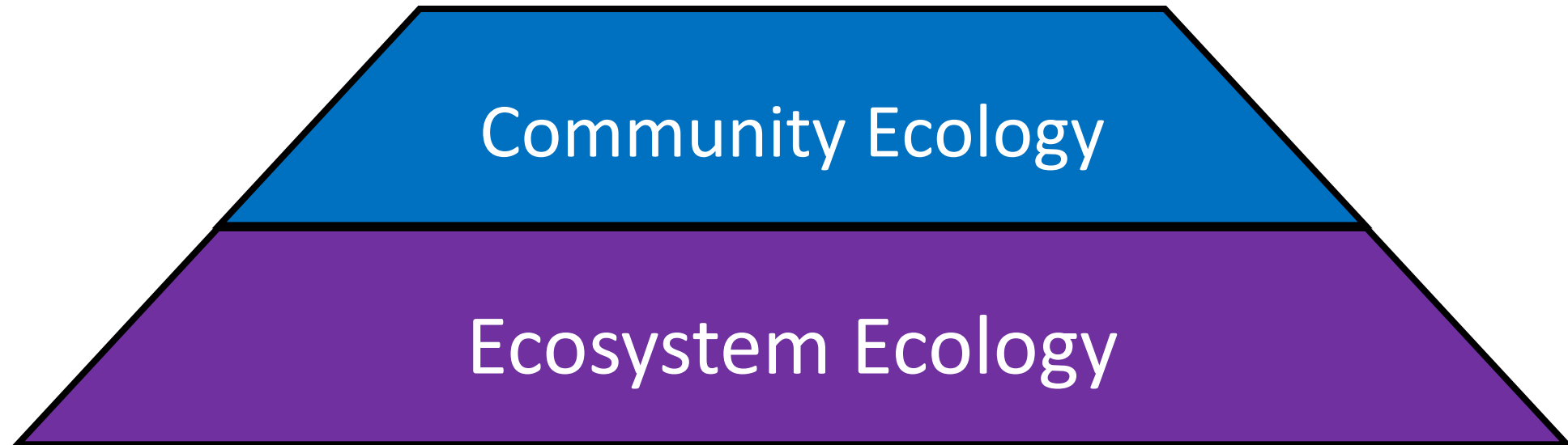
What aspects of the abiotic and biotic environment influence plant functioning?

Hierarchy of Ecology

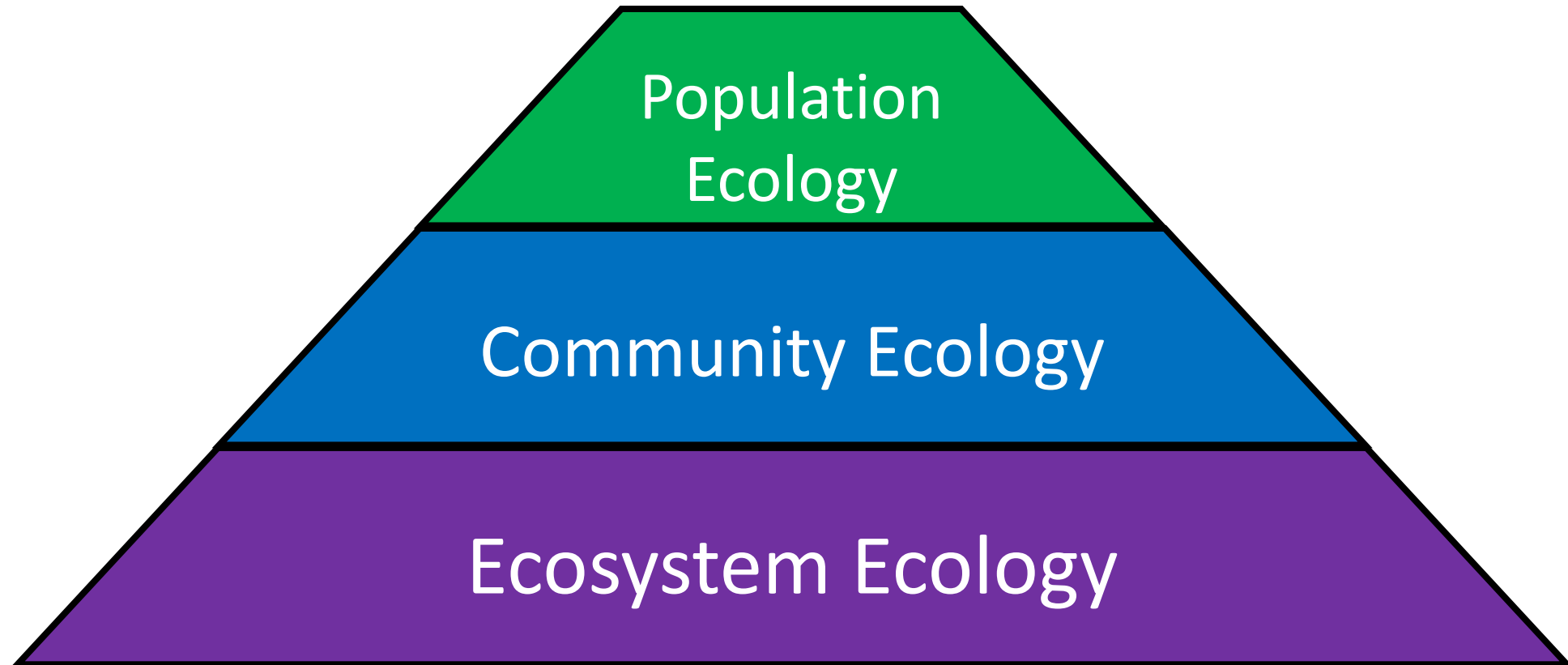


Ecosystem Ecology

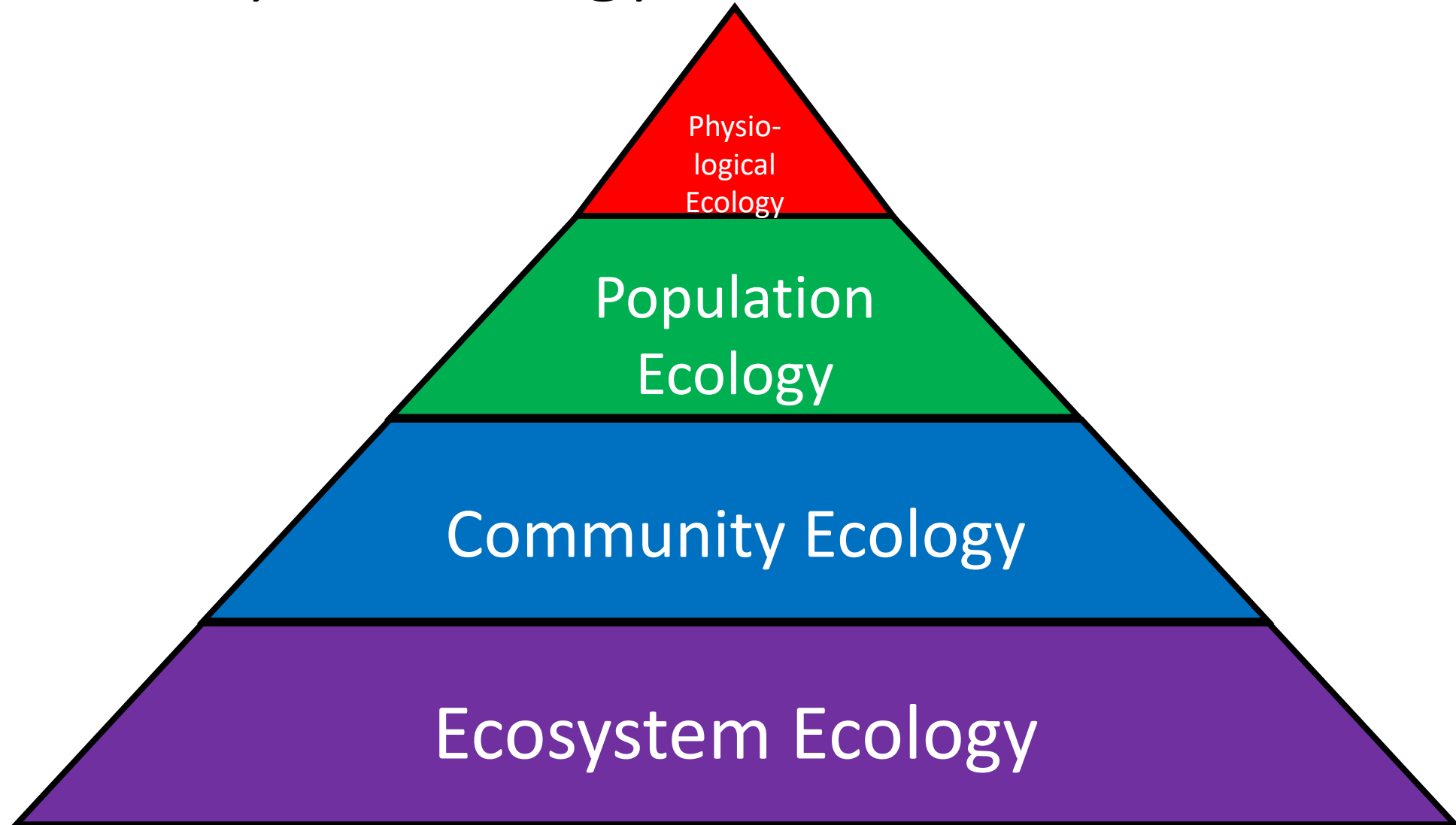
Hierarchy of Ecology



Hierarchy of Ecology



Hierarchy of Ecology



Physiology: a definition

The functioning of an organism that allows it to survive, grow, and reproduce

Ecophysiology: a definition

Responses to environmental conditions
observable at the *individual* level



Ecophys discussion: traits

Discussion

- What is a plant trait?
- How do plants get their traits?

Discussion

- What is the difference between acclimation and adaptation?
- How would you know?