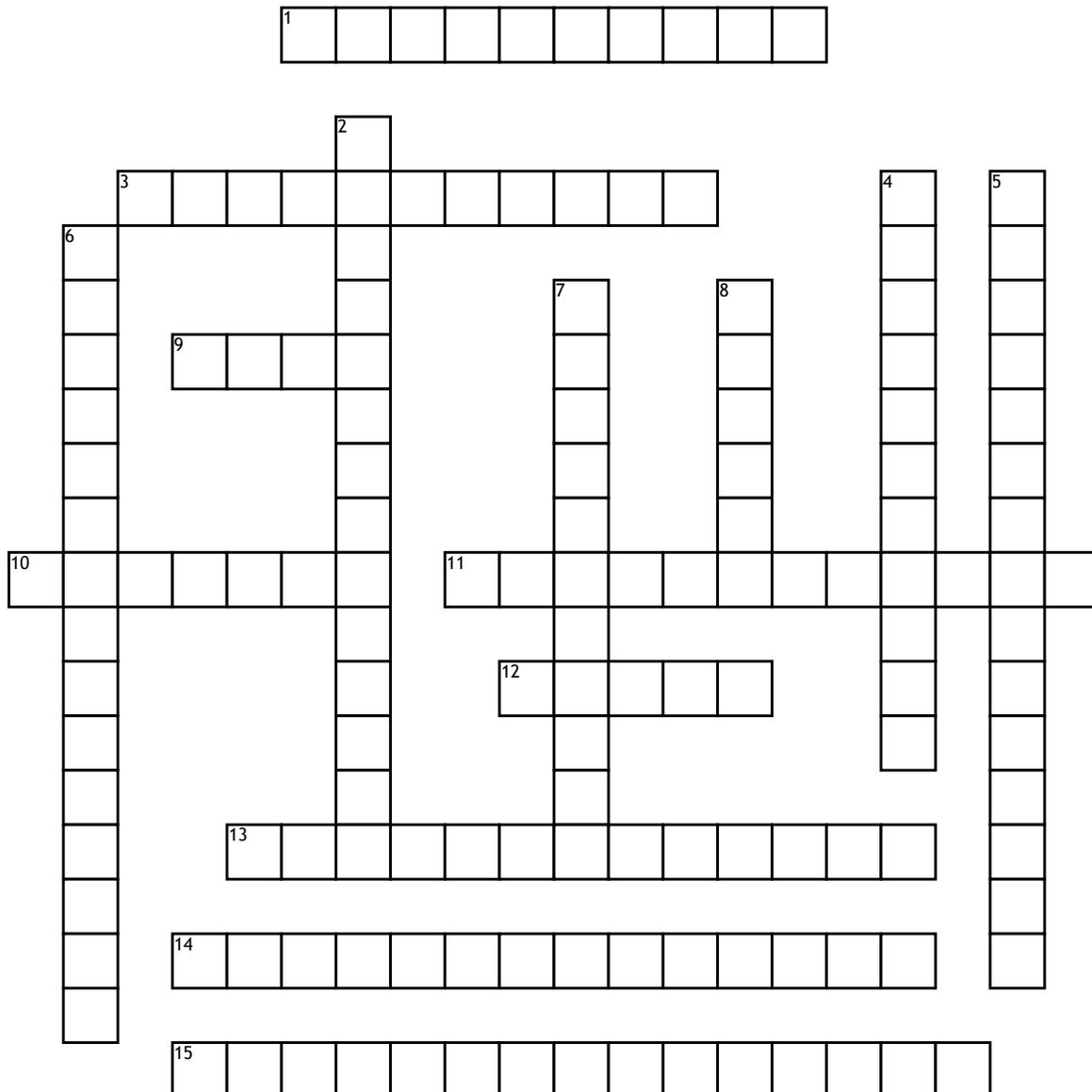


# Ecosystems and the Physical Environment



## Across

1. Dry conditions, often on original scale, that occur on the leeward side of a mountain barrier; the passage of moist air across the mountains removes more of the moisture
3. The global circulation of carbon from the environment to living organisms and back to the environment
9. A cycling of alternating warming and cooling of surface waters of the tropical eastern Pacific ocean that affects both ocean and atmospheric circulation patterns
10. The average weather conditions that occur in a place over a period of years
11. The layer of the atmosphere found directly above the troposphere

12. Large, circular ocean current systems that often encompass an entire ocean basin
13. The global circulation of nitrogen from the environment to living organisms and back to the environment
14. The study of the processes which the lithospheric plates move over the asthenosphere
15. The global circulation of water from the environment to living organisms and back to the environment

## Down

2. The influence of earth's rotation, which tends to turn fluid toward the right in the Northern Hemisphere and toward the left in the Southern Hemisphere
4. The layer of the atmosphere closest to Earth's surface

5. The global circulation of phosphorus from the environment to living organisms and back to the environment
6. Major surface winds that blow more or less continually
7. The global circulation of sulfur from the environment to living organisms and back to the environment
8. The proportional reflectance of solar energy from Earth's surface