

# Ecological Zones

## Twilight Belt Ecosystem

The twilight belt is home to stratified vegetation zones, where plants grow increasingly hardier as they approach the colder night side. Near the day side, sunspires—tall, flexible plants—thrive under extreme light, while windvines, creeping plants adapted to dispersing seeds through the wind, dominate the transitional areas.

The soil in this region is rich with microbes that have adapted to high winds and fluctuating moisture. Nitrogen-fixing bacteria form symbiotic relationships with plant roots, ensuring survival in nutrient-scarce conditions. Wind-dependent pollination is the norm, with plants producing lightweight seeds and spores. Some species rely on vibrational receptors to release pollen, responding only to specific wind frequencies.

Decomposition cycles are equally specialized. Windbreakers, small scavenger organisms, disperse nutrients across large areas, while rapid decomposers break down organic matter efficiently, replenishing the thin soils of the twilight belt.

## Cave System Ecology

Beneath the surface, geothermal food chains begin with chemosynthetic bacteria thriving near heat sources. These bacteria process geothermal chemicals, releasing energy that sustains primary consumers like glowmoss grazers—small, bioluminescent herbivores that play a vital role in the subterranean ecosystem.

Fungal networks dominate the caves. Glowcaps, bioluminescent fungi, act as both light sources and key food supplies for herbivores. Mycorrhizal fungi connect plant roots, facilitating the exchange of nutrients and enhancing survival rates. Geothermal springs harbor heat-tolerant amphibians and microbial mats that filter water and support larger organisms, including translucent fish and thermal crustaceans.

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