

B4.1 Adaptation to environment

Checklist

What you should know

After studying this subtopic you should be able to:

- Define habitat as a place in which a community, species, population or organism lives.
- Define adaptation and discuss various ways that organisms have adapted to the abiotic factors of their habitat particularly the sand dunes and mangrove swamp.
- Explain how abiotic variables affect a species distribution and contribute to its range of tolerance.
- Use transect data to correlate the distribution of an organism using sensors and data loggers.
- State the conditions required for coral reef formation.
- Describe how abiotic factors act as the determinants of terrestrial biome distribution.
- Recognise biomes as groups of ecosystems with similar communities due to similar abiotic conditions and convergent evolution.
- State the adaptations to life in hot deserts and tropical rainforest.

Practical skills

Once you have completed this subtopic, go to [Practical 7: Measuring percentage cover to assess the distribution and abundance of plants in a habitat \(/study/app/bio/sid-422-cid-755105/book/measuring-percentage-cover-id-46706/\)](#) in which you will use a quadrat to systematically sample a plant species.

