All Plants and Animals live in Ecological Communities

The community is an important basis for developing our understandings



Karst has a distinctive set of communities

- The surface community: plants, birds, mammals, reptiles, etc.
- Many of these will be found equally in neighboring non-karst areas
- Some will be found only the karst or only elsewhere at a long distance
- Some will also enter into the caves



Visitors to the cave:

May fall in by accident: important to the cave community only as potential food

Others [Trogloxenes] enter the cave as part of a daily cycle

- Bats to shelter and sleep
- Snakes to eat the bats
- People to look and inquire



Then there are permanent residents.

There may be found elsewhere, e.g., in leaf litter [Troglophiles]

Others only occur in the caves and are specially adapted to underground life [Troglobites]

They survive by eating:

Other permanent residents

Food contributed by the trogloxenes e.g., bat guano; or falling or being washed into the cave from outside



Four major types of cave community

Terrestrial species

Freshwater Species

Anchialine species

Microbiota: bacteria and nanobia



Management for biodiversity conservation:

- Maintain normal environment, especially micro-climates
- Prevent floor trampling
- Avoid pollution or sedimentation
- Sensitive tourism development

