



Group 1 field trip presentation

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Q. 2 comparison of different sampling method

- Methods we used
- Transect count
- Point count
- Quadrat count
- Active searching



Transect count results

Types of animals	Number of species found in Ha Fa Shan
Bird	5
Butterfly	13
Dragonfly and Damselfly	7

Transect count

➤ Advantages:

➤ Large covered area

➤ Able to show the abundance and distribution of types of animals

➤ It shows quantitative data

➤ Disadvantages:

➤ Requires longer time

➤ Requires a certain extent of physical ability



Point count result

Types of animals	Number of species found in Ngor Tei	Number of species found in the peak of Ha Fa Shan
Bird	2	0
Butterfly	4	6
Dragonfly +damsel fly	4	3

Point count

➤ Advantages:

➤ Requires shorter time

➤ Can observe the habitat in a specific area

➤ Disadvantages:

➤ It may be much inaccurate because some organisms can fly and do not remain still for observation

➤ Not suitable for observing nocturnal and hidden animals



Quadrant count result

Living organism	Number of species found
Shrubs	5
Herbs and climbing plants	1
Insects	5
Other arthropod	0
Other animals	0
Other living organisms	1

Quadrant count

➤ Advantages:

➤ Can observe organisms within the quadrant in details

➤ Can be done repeatedly

➤ Disadvantages:

➤ Cannot record organisms with high mobility

➤ Cannot represent the distribution of the whole area



Active searching result

Living organism	Number of species found
Shrubs	5
Herbs and climbing plants	1
Insects	9
Other arthropod	1
Other animals	0
Other living organisms	1

Active searching

➤ Advantages:

➤ Hidden organisms can be found

➤ Disadvantages:

➤ The efficiency is low because longer time is required to search larger areas to record organisms



Conclusion

- Transect count can observe a huge area with complete data includes species be found, distribution and abundance at the same time
- Quadrant count can only observe organisms within a small area
- Point count cannot allow us to distinguish the species of flying animals e.g. Butterflies
- Active search needs detailed searching so only can be carried out in small areas if labor is limited

Question 55555

Ecological phenomenon report

➤ Commensalism

➤ Examples: Tree trunk and lichens



➤ Competition

➤ Example: cicada



➤ Parasitism

➤ Endoparasitism



➤ Mutualism

➤ Example: lichen



➤ Predation

➤ Example: spider and moth



➤ Mimicry

➤ Examples: wasp moth



Thank you for listening! ^ ^