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TEMPERATURE-HUMIDITY LOGGER DEPLOYMENT GUIDELINES

Temperature and humidity loggers will be primarily used to collect information about known bat hibernation sites, but will also be used to develop overall cave climate profiles of bat-friendly caves. They will not be used at all sites but will be deployed after consultation with the program coordinator. The goal is to deploy them far enough from the entrance so as to generate a profile of the actual cave climate with minimal influence from the more variable surface climate. If the roost logger is placed deep enough within the cave, the temperature logger can be placed nearby for easy retrieval.

Here are some general guidelines regarding placement:

- Do not place temperature loggers within 1 m of the roost logger as they can emit ultrasonic frequencies which will trigger it. Placement to the side of the roost logger, **away from the microphone** is preferable.
- Place where they **can't be chewed on by rodents**; they are supplied with an ample length of baling wire which will allow them to be hung in a safe place.
- If placed away from the roost logger, include the **laminated card** identifying its purpose so that people that see it will understand its use and hopefully not interfere with it.
- **Hide** from casual observation where possible.
- Place **away from drips** that may run down the wire and interfere with its operation. To reduce condensation drips on the wire, make an 'N' shaped kink in the wire to allow water to drip away from the logger. Do this close to the logger itself.
- Ideally they should be placed **close to where the bats hibernate**, if known. Place at a similar elevation to the bats if possible. Keep your time near the bats as short as possible and avoid making noise. Keep in mind that the logger can generate ultrasonics so don't place it too close.

Types of Loggers

The BatCaver Program uses two types of temperature-humidity loggers:

1. HOBO Temperature-humidity logger

2. IButton Temperature-humidity logger