

UPDATED 2020
Anabat Instructions
GA DNR Mobile Acoustic Routes

Basic Guidelines for GA DNR Mobile Acoustic Routes

- Sampling should occur twice each year, once in June and once in July.
- Sampling should only occur on nights suitable for bat activity (low wind, no rain or fog, appropriate temperatures—above 60 degrees.
- Sampling should begin 30 minutes after sunset.
- Transects should be run at 20 mph.

Setting up Anabat, Microphone and GPS

1. Remove the Anabat, Microphone and GPS from the box. Ensure that all other accessories stay in the box and are returned with the anabat.
2. Attach GPS to roof of vehicle on driver's side. Run GPS cord through the open window.
3. Attach the GPS, USB plug into the emergency battery power source or the cigarette lighter adapter. It's important you plug the GPS in first to ensure it has time to establish a location.
4. Attach microphone to the roof on the passenger side. The roof should be clear of dirt and debris so the base can establish a good connection. Depress the plunger on the suction cup until the red line is no longer visible.
5. Use the adjustment knob to turn the microphone until it is pointing straight up.
6. Ensure that both the GPS and microphone are securely attached to the vehicle.
7. Fill out data sheet (excluding start time and ending data).
8. Attach Survey in Progress signs to vehicle. Ensure the signs are placed on a flat surface and attached well before driving.
9. Enter the vehicle being careful not to shut cords in the door or dislodge survey equipment. You can roll up the window but do not roll it up all the way and pinch the cords.
10. Plug the GPS serial plug into the port on the Anabat.
11. Plug the microphone cord into the top of the Anabat. The small microphone may have to be removed first by pulling it straight off. **DO NOT TWIST!** The line on the plug should be pointed up.
12. Turn on the Anabat. The Record and Status lights should be lit. **The Data light should be flashing indicating that the GPS is recording locations.**
13. Check that the Audio Div is set to 16, and Data Div is set to 8.
14. The sensitivity knob should be set to 7. In case of excessive noise, adjust the sensitivity down slightly.

NOTE: Please read the following information to clarify what the LED lights indicate. There shouldn't be any inconsistency in the way the LEDs work, but both the Standby and Data LEDs reflect things which can change.

The Data LED should only light when there is something being detected by the detector. However, what is being detected can vary a great deal. A low level of continuous noise can keep the LED alight, or at least flickering, without any sound coming through the speaker, because the frequency is too low. It should never be continuously off if there is sound coming through the speaker. Of course, the speaker can be turned off by turning the volume right down, in which case there will be no sound even if there is a lot of data.

The Standby LED can be on in different conditions, but presumably it will only be seen to come on: a) with both the Record and Status LEDs when the unit is booting, but that won't normally take very long. However many factors affect boot times and it could conceivably take a few minutes with a large capacity, slow card the detector had not used last time, or depending on how it was formatted. b) when the GPS is sending data to the CF card it will flash every second, or maybe every two seconds depending on the GPS unit.

If you have further questions or if your unit does not appear to be working properly, please contact Katrina Morris or Emily Ferrall at the numbers below.

Completing Survey

1. Write down exact start time on data sheet.
2. Drive survey route from beginning to end at 20mph. If road conditions are poor, drive as close to 20 mph as possible, allowing for safety first.
3. Avoid extended stops and try to maintain a constant speed.
4. Note any road changes or alterations in route on the data sheet.
5. At end of survey, turn off the Anabat and record the exact stop time on the data sheet.
6. Finish the ending data boxes on the data sheet and return it to the folder in the completed data sheets section.

Disassembling the Anabat, Microphone and GPS

1. Unplug the GPS from the power source and turn off or unplug power source.
2. Unplug the microphone from the Anabat
3. Return the Anabat, Microphone and GPS to the box. Ensure that all other accessories stay in the box and are returned with the anabat.
4. Remove Survey in Progress signs from vehicle.
5. Ensure all equipment, signs, data sheets and instructions are secured before leaving the stopping point.

Problems or Questions? USE THIS UPDATED CONTACT INFORMATION:

- Call Trina Morris (678-836-5769) or Emily Ferrall (470-606-6666) only when troubleshooting problems that will prevent you from completing your route.
- For other questions related to your route:
 - Email (katrina.morris@dnr.ga.gov) or call Trina Morris office (706-557-3220), cell (678-836-5769)
 - Email (emily.ferrall@dnr.ga.gov) or call Emily Ferrall office (706-557-3212), cell (470-606-6666)

Thanks for your help with this important project!!!