

SOP: Pinpoint GPS logger data retrieval and programming

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Data retrieval - Swift GPS fixes on Lotek PinPoint 8/10 units

1. Open Lotek PinPoint Host.
2. Connect DLC-1.
3. Ensure PinPoint electrical connections are clear of mud/debris and connect to the DLC-1. A good connection will be indicated by a green COM light on the DLC-1 unit.
4. If necessary, select the correct communications (COM) port to connect to the DLC-1. A dropdown menu is located in the upper left of the screen below the **System** menu.
5. Click <Show Tag Parameters> button (also available under the **Commands** menu).
6. Click <Deactivate Tag> button (also available under the **Commands** menu).
7. If tag has been deployed for more than a couple of months, allow it to charge completely prior to data retrieval. A full charge will be indicated by a green CHRG light on the DLC-1 unit.
8. Click <Get GPS Data> button (also available under the **Data** menu).
9. When prompted, save the *.psr file and, subsequently, enter the coordinates and altitude (m) of the initial Swift fix. Adam will provide this information for each tag.
10. Send the resultant *.psr and *.obs files to Adam. The *.obs file will be located in the same directory, and share the same name, as the *.psr file.
11. Confirm receipt of these files prior to reprogramming the tag for another deployment.

Tag programming - Swift GPS fixes on Lotek PinPoint 8/10 units

1. Open Lotek PinPoint Host.
2. Connect DLC-1.
3. Ensure PinPoint electrical connections are clear of mud/debris and connect to the DLC-1. A good connection will be indicated by a green COM light on the DLC-1 unit.
4. If necessary, select the correct communications (COM) port to connect to the DLC-1. A dropdown menu is located in the upper left of the screen below the **System** menu.
5. Click <Show Tag Parameters> button (also available under the **Commands** menu).
6. If tag is activated, click <Deactivate Tag> button (also available under the **Commands** menu).
7. Synchronize your computer's system time with official US time, available at time.gov.
8. Synchronize the tag time with your system time by clicking <Set Tag Time> button (also available under the **Commands** menu) and following the default prompts.
9. Click <Send GPS Schedule> button (also available under the **Schedule** menu) and browse to the location of the desired schedule file (*.ASF). These files are available from Adam. Follow the default prompts after selecting this file. Note: an initial GPS fix at a known location is necessary to get accurate Swift fixes. This initial fix is a part of the schedule, so pick a time and date that is convenient for you and let Adam know.
10. Allow the tag to charge completely prior to activation. A full charge will be indicated by a green CHRG light on the DLC-1 unit.
11. Click <Activate Tag> button (also available under the **Commands** menu) and follow default prompts (e.g., erase tag data).
12. Just prior to the initial fix time (see above), place the tag at least 1 m above the ground in a spot that (a) is easily located with high accuracy on, e.g., Google Maps, and (b) has a clear view of the sky. The

fix is acquired in ≤ 10 s, but ensure that you've given the tag(s) time to acquire the fix prior to removal. Checking time.gov on a mobile device is a good way to confirm the fix time has passed.