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 software.
- 2. Connect DLC-1 to computer via USB.
- 3. Ensure PinPoint GPS logger's 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 software.
- 2. Connect DLC-1 to computer via USB.
- 3. Ensure PinPoint GPS logger's 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 CDeactivate Tag> button (also available under the Commands menu).
- 7. Synchronize your computer's system time with official US time, available at time.gov.
- 8. Synchonize 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.