How to Take Stream Temperature Monitoring (i.e. HOBO) Site Photographs



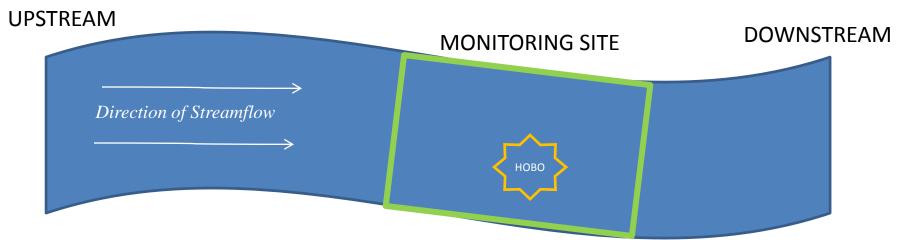


Spring 2015
CTDEEP River & Stream Volunteer Monitoring Program
Stream Temperature Monitoring

Last revised 04/07/2015



How to Take HOBO Site Photographs

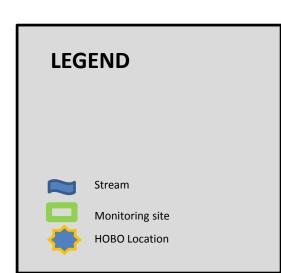


Directions:

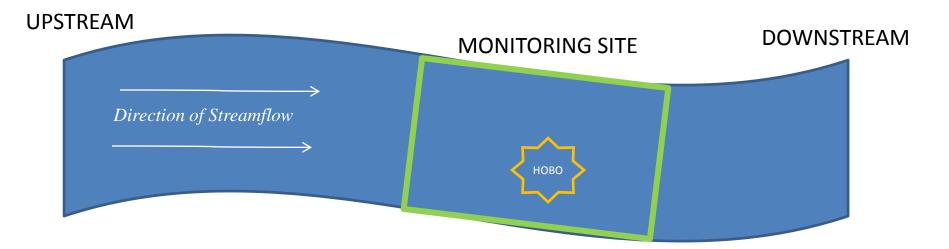
As part of the Volunteer Stream Temperature Monitoring program you must take three photographs before leaving your site:

- 1. A photo looking UPSTREAM from your site
- 2. A photo looking DOWNSTREAM from your site
- 3. A photo showing the HOBO LOCATION

These photos are important data. They not only document the stream conditions at the time the HOBO is deployed/retrieved, they also provide 'proof' that the HOBO was installed by volunteers where indicated without the need for DEEP field staff checks – it's important that you remember to take and submit them!! (Photos should be taken twice - on the day that the HOBO is installed and on the day it is retrieved.)



CAMERA SETUP



Directions:

- 1. Turn your camera (or Smartphone) on; remove any covers. ©
- 2. If you have the option to record a date and time stamp, turn the feature on and make sure the current date/time are correct.

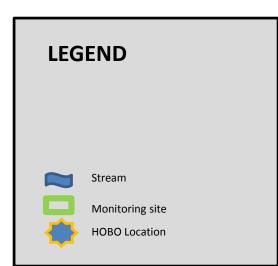


Photo #1: UPSTREAM of the HOBO

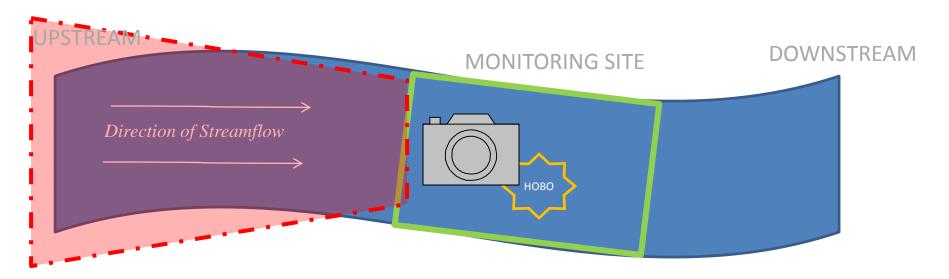


Photo 1 Directions:

- Stand in the stream near the installed HOBO and face UPtream. (The water should be flowing so that it is coming from in front of you, flowing past, and travelling away behind you.)
- 2. If the setting is available set your camera to the 'Landscape' setting. Make sure it is zoomed out as much as possible.
- 3. Take your photo, trying to capture the stream in the distance ahead of you as well both banks as much as possible.
- 4. Check the photo to make sure it is clear.
- 5. Check the 'upstream area' photo box on the logger installation/retrieval form

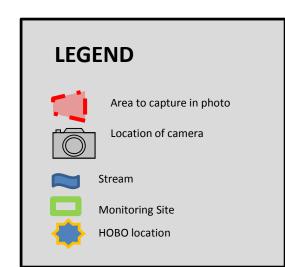
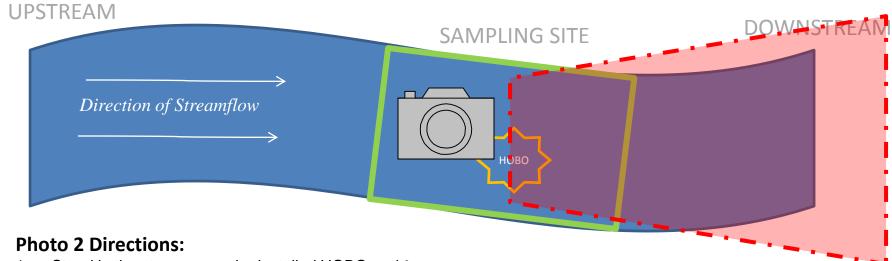


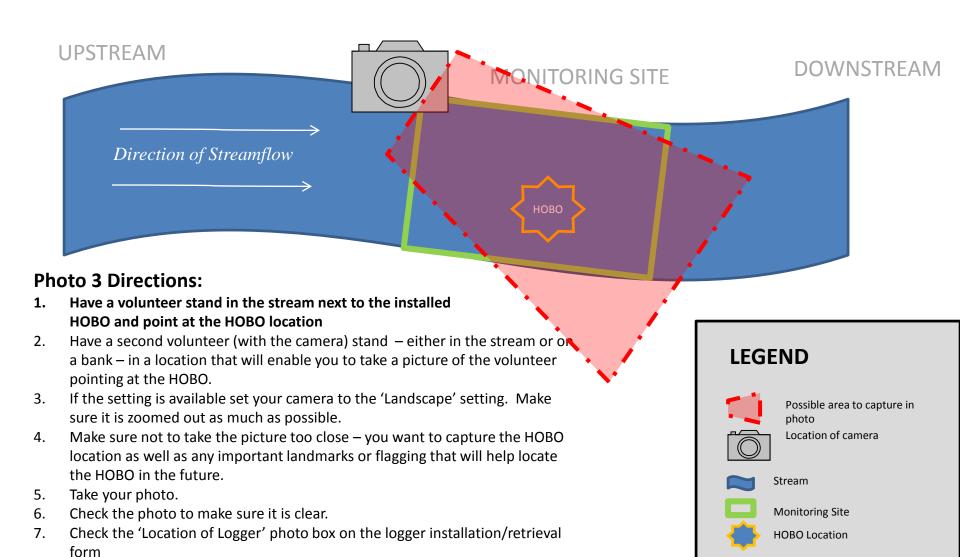
Photo #2: DOWNSTREAM of the HOBO



- 1. <u>Stand in the stream near the installed HOBO and face DOWNstream</u>. (The water should be flowing so that it is coming from behind you, flowing past, and travelling away in front of you.)
- 2. If the setting is available set your camera to the 'Landscape' setting. Make sure it is zoomed out as much as possible.
- 3. Take your photo, trying to capture the stream in the distance ahead of you as well both banks as much as possible.
- 4. Check the photo to make sure it is clear.
- 5. Check the 'downstream area' photo box on the logger installation/retrieval form



Photo #1: HOBO Location



Example Photographs

Photo 1: Upstream

Photo 2: Downstream





Photo 3: HOBO Location Note that photo captured both the hobo position as well as flagging