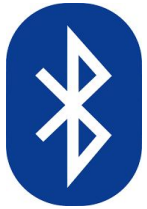
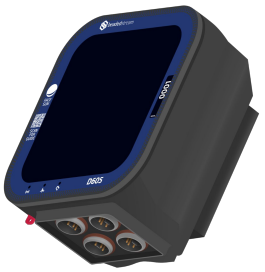
D605 DATA LOGGER INSTALLATION QUICK START GUIDE

Pre-Installation Checklist

- Download the Capture by BeadedStream app (LINK)
    - Make sure that you have the latest version of the app
- Turn on your iOS device's Bluetooth
- Magnet (included on the base of the D605 data logger)
- D605 Data Logger





Logger Installation

Steps

- Do this FIRST before deploying a logger in the field with the Terminal Emulator in the Capture App
- Mount logger above yearly maximum snow and/or water levels
- **Orient logger towards true south** (northern hemisphere) or true north (southern hemisphere)
- No overhead obstructions
- Minimal vertical tilt**

**Tilt will DRASTICALLY REDUCE satellite antenna performance. No tilt means logger bottom ports point straight down. In locations with snow, no tilt is a good balance of direct sun and energy reflected from the snow.

Make sure that the logger is oriented towards true south (northern hemisphere)

Connect the Cable(s)

Steps

- Identify which cable connector you have:
  - Raymo (see image) - no paste needed
  - XLR (see image) - coat with a small amount of “Stuf” paste
- Align the pins on the cable connector and the bulkhead receptacle
- Cable connector is locked into the bulkhead receptacle (push hard, feel and hear a slight click, do a light tug test)
- Cables are secured (zip ties are typically used if conduit isn’t present)

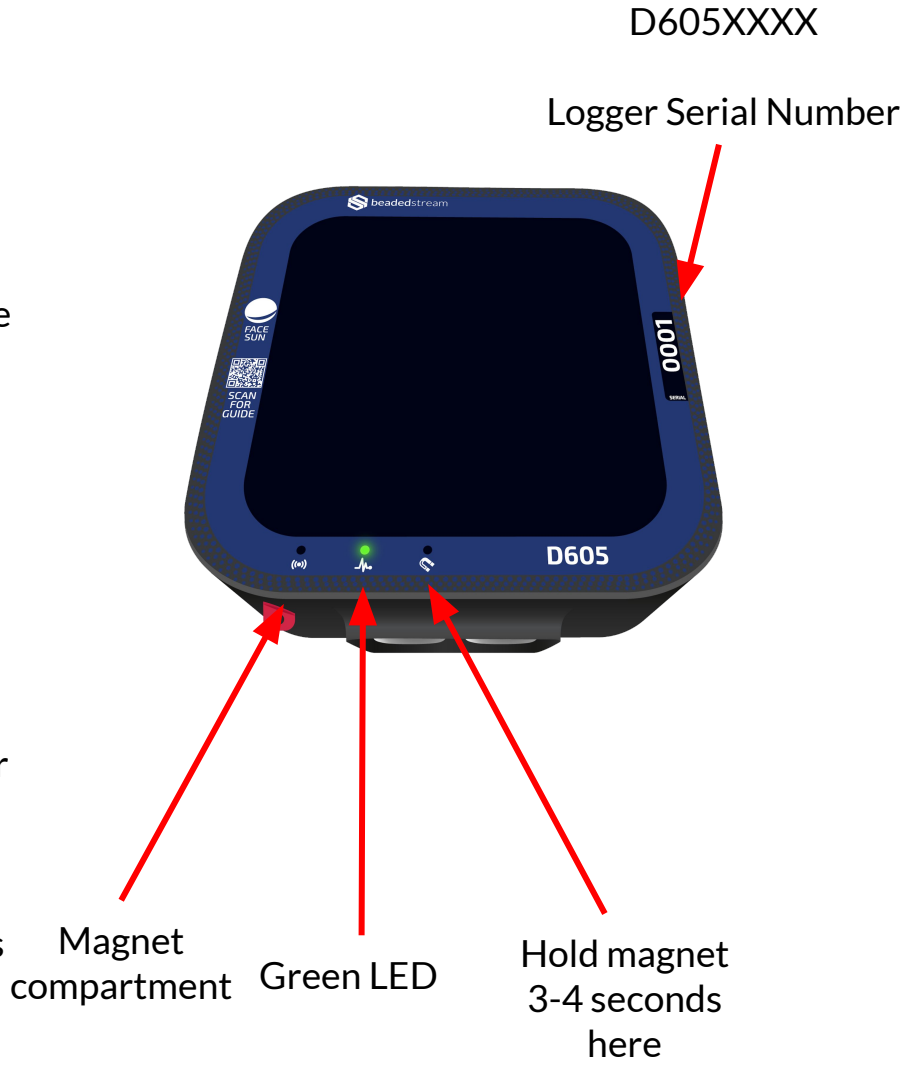
Raymo

XLR

Wake Up From Nap Mode

Steps

- Note: Your data logger is shipped in Nap Mode for 999 days to preserve the battery. It needs to wake up at installation for it to log/transmit.
- By connecting a cable to the data logger (make sure you hear the click!), it will remove the data logger from nap mode.
- You can also remove the logger from nap mode by:
  - Removing the provided magnet from its compartment on the bottom side of the data logger (it slides out)
  - Hold the magnet over the icon on the face of the logger for 3-4 seconds
- See more information about how to check nap mode later in this document, including how to return to nap mode for storage.

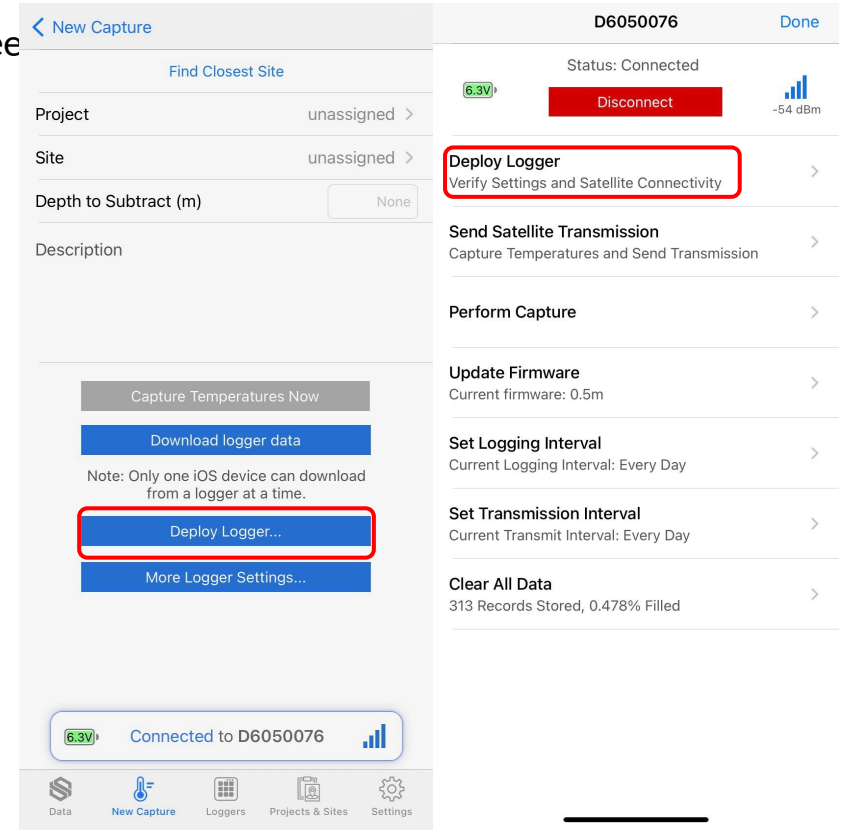


Deploying logger in the field for satellite telemetry

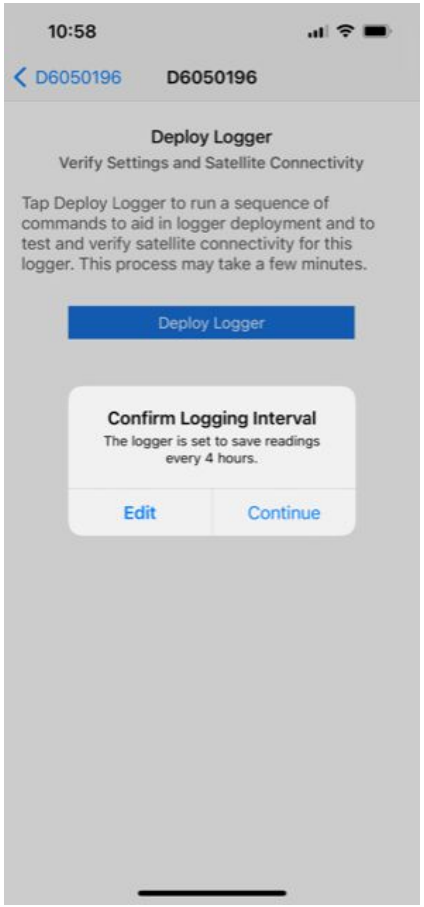
Here's how to make sure that your satellite connection is working properly before leaving the field

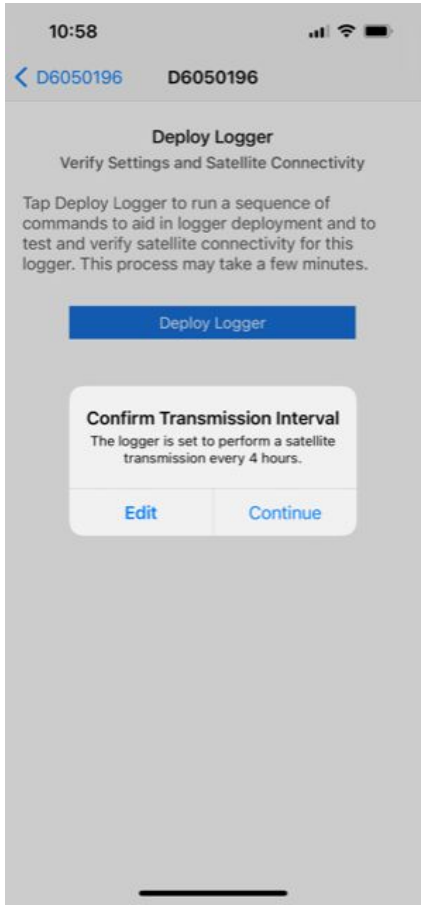
Steps

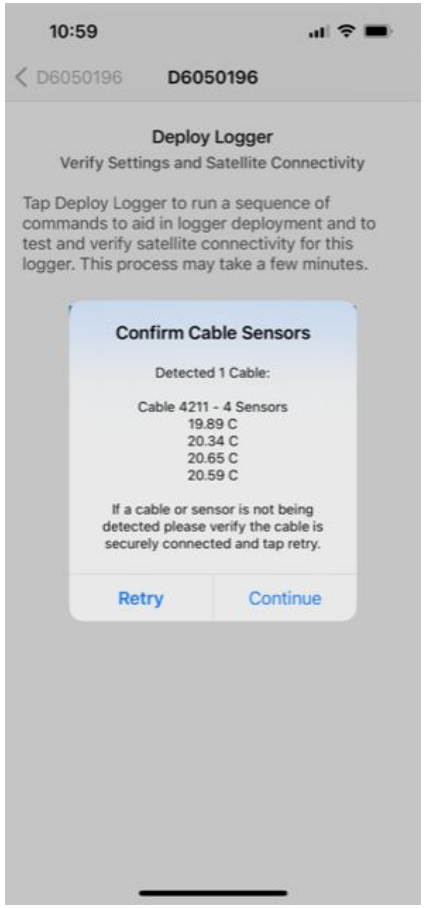
- Open Capture App on iOS device
- Connect to your logger (ex. D605XXXX)
- Swipe magnet (~1 second) to connect to Bluetooth faster
- Select Deploy Logger from either the New Capture or Loggers scree (see images on this slide)
- Run the Deploy Logger sequence
- You will be asked a few questions to verify setup (see images on the next slide)
- When deploy is complete it will return either:
    - Deploy successful - you are setup!
    - Unable to transmit - retry and contact us if you continue to get this result. If you can contact our team from the field while you are with the data logger, that is ideal.

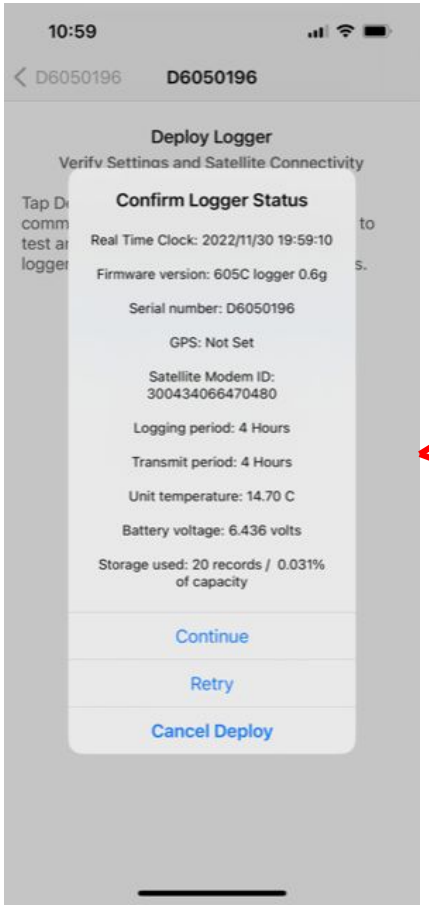


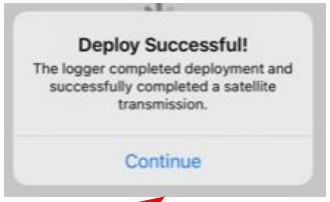
Deploying logger in the field (Continued)

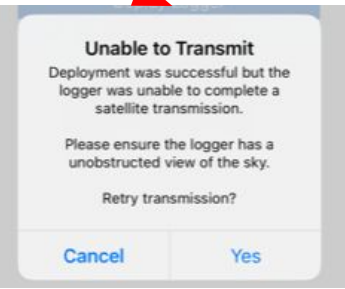






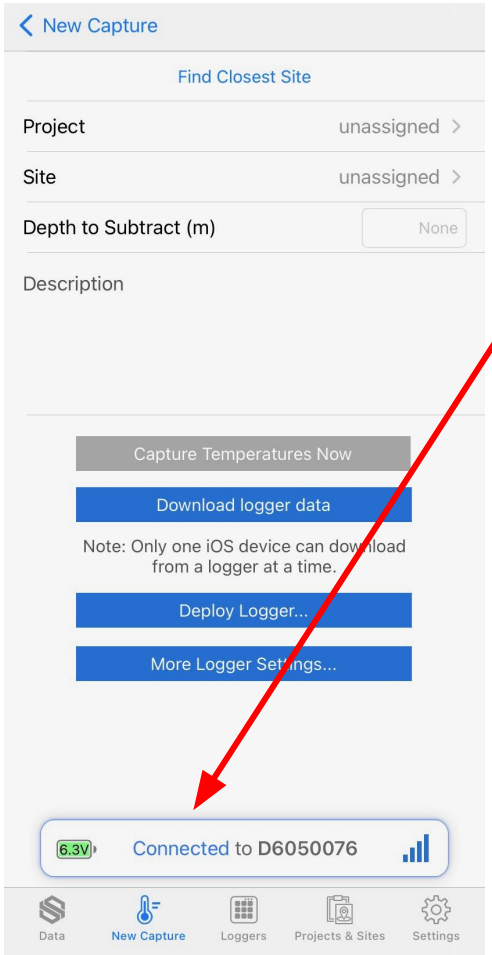


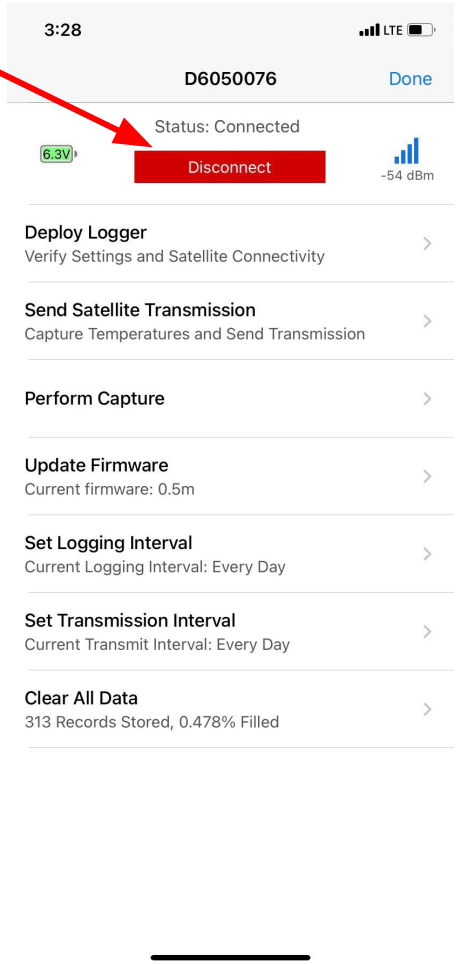




Deploy Logger sequence steps
Confirm logging interval, transmission interval, cable sensors and logger status.

Always disconnect from the data logger before exiting the app.

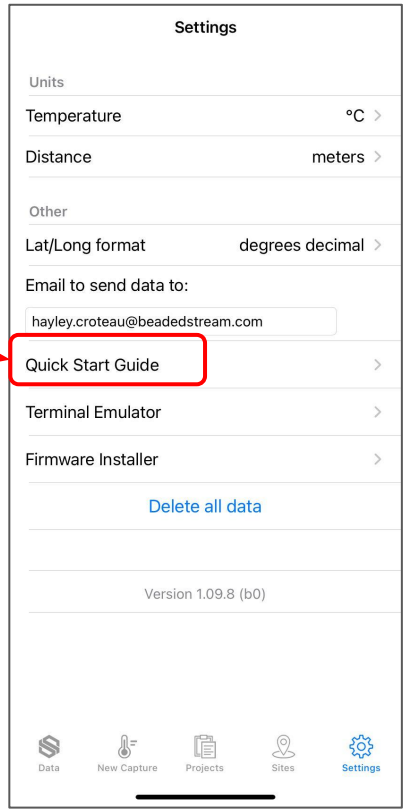




To learn more about using Capture app to take spot readings or download data visit:

PDF Guide:
https://www.beadedstream.com/wp-content/uploads/2022/03/beadedstream-Capture-App-Guide.pdf

Note: the guide is also available within the Capture app settings page for remote access in the field



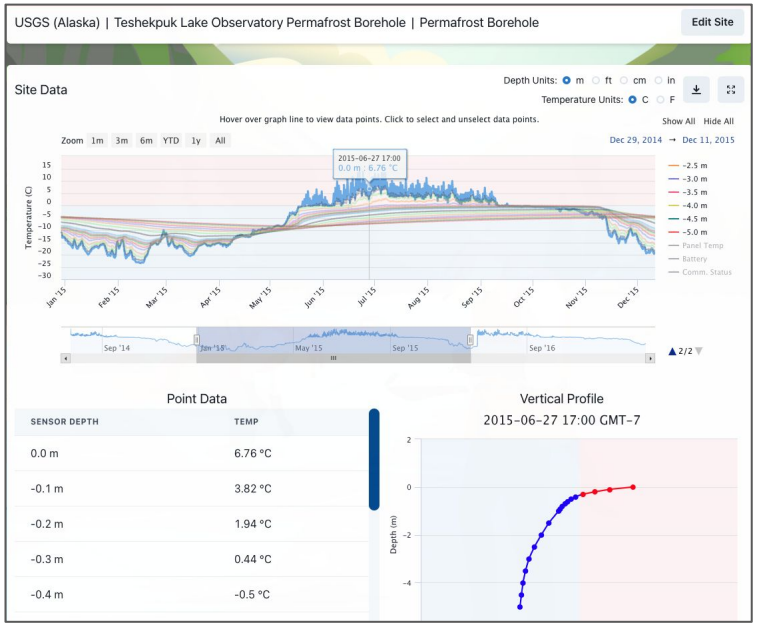
Setting up beadedcloud Data Dashboard

Once data transmission has been established, data will transmit to the **beaded**cloud database. Our team can setup the sites within **beaded**cloud so you can remotely see your data in real-time.

Once the logger has been deployed:

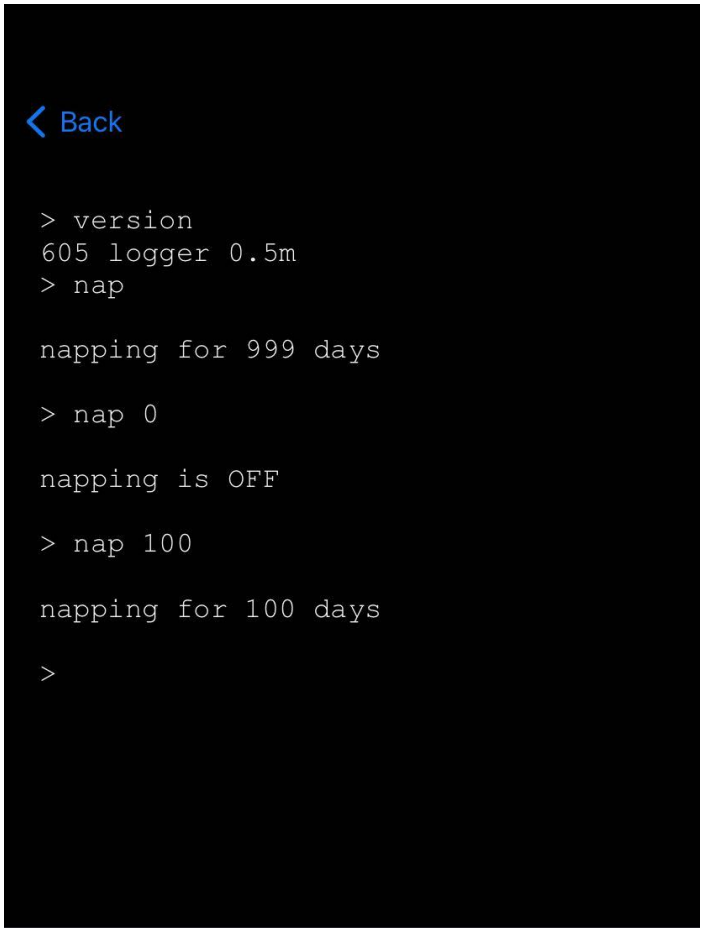
- Notify your **beaded**stream representative
- Provide the overall project information:
  - People you'd like to give user access to view data (name, email address, and organization for each user)
  - Temperature units (C or F) and Cable depth units (m, cm, ft, in)
- Provide the site specific information for each cable:
  - Your cable site name (i.e. drill hole or instrument number or other identifier)
  - Cable serial number (XXXX) and the logger serial number (D605XXXX) it is connected to
  - Data logger latitude and longitude to add it to the map
- Once your sites are setup, you can login to app.beadedcloud.com to view your data

beadedcloud



Nap Mode and Long Term Logger Storage

Your logger is shipped in Nap Mode to preserve the battery before it is installed in the field. If you will be storing the logger inside before installation or between projects, please make sure it is in nap mode and check and charge the battery periodically (~3 months) during storage.



Checking or Setting Nap Mode in Capture App

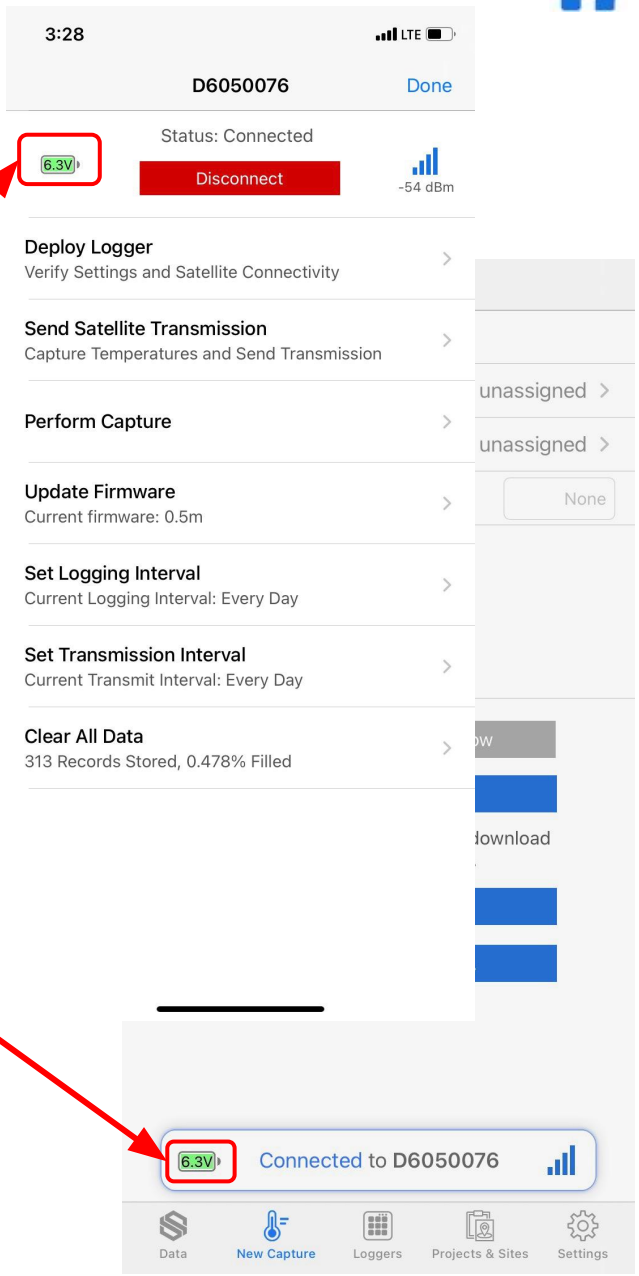
- Select Settings
- Select Terminal Emulator
- Select your logger (ex. D605XXXX)
- Swipe magnet (~1 second) to connect to Bluetooth faster
- Wait ~15 seconds for the black screen to show " > "
- Type "Nap" and press Enter, which will result either "Napping is OFF" or Napping for X days"
- To turn on or increase the number of nap days, type "Nap XXX" and press Enter, where XXX = number days (999 maximum) and it will return "Napping for XXX days"
- To turn off nap mode, type "Nap 0" and press Enter and it will return "Napping is OFF"

Checking and Charging the Battery

To charge the battery during storage, face the logger towards the sun by putting it in a south facing window (northern hemisphere). Where possible, store the logger in this window sill so it can recharge as needed and at least five days before deployment.

Checking Battery Voltage in Capture App

- Select Loggers
- Connect to your logger (ex. D605XXXX)
- Swipe magnet (~1 second) to connect to Bluetooth faster
- Battery voltage will show in the top left corner
- While connected to the logger, it will also show in the status bar in any part of Capture app
- If the battery voltage is at or above 6.0 volts, then it is still acceptable. Please charge the battery if it is near 6.0V
- If the battery is below 6.0 volts, please contact our team as you may need a battery replacement



For more advanced settings, contact the beadedstream team