C-FINS

Fluorometric Integrated Nautical Mapping System

TURNER DESIGNS

Presenter: Tom Brumett, Sales Engineer Turner Designs

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The Challenge

- CTDs collect water quality data.
- Many researchers want more than vertical profiles.
- They also want to collect real-time data and multiplex the fluorescence, depth, temperature and position data.
- Custom software development is costly and complicated.
- Instrument manufacturers offered technical advice but no real solutions.

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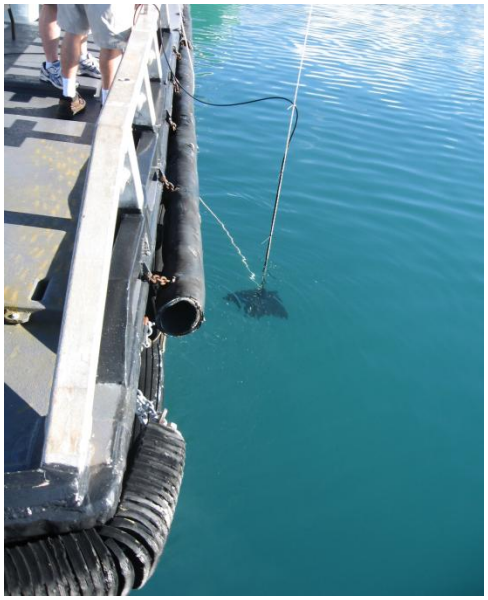
The Solution

- The C-3 provides 1, 2 or 3 channels of fluorescence or turbidity plus temperature and depth.
- The C-ray towed body facilitates moving the fluorometer horizontally through the water.
- ArcGIS 10.0 provides the platform for integrating water quality and position data.

C-FINS **F**luorometric **I**ntegrated **N**autical Mapping **S**ystem

Packaged product for environmental customers who want to collect continuous fluorescence, depth and temperature data and integrate with GPS information.



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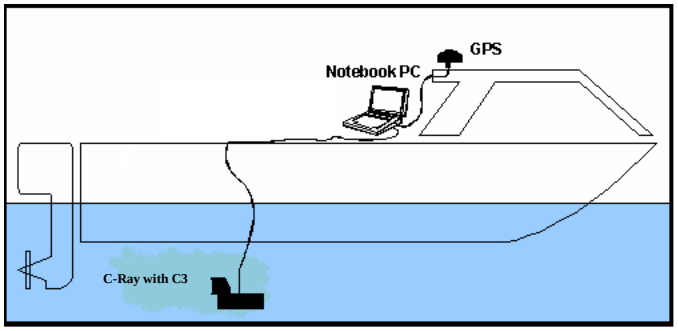
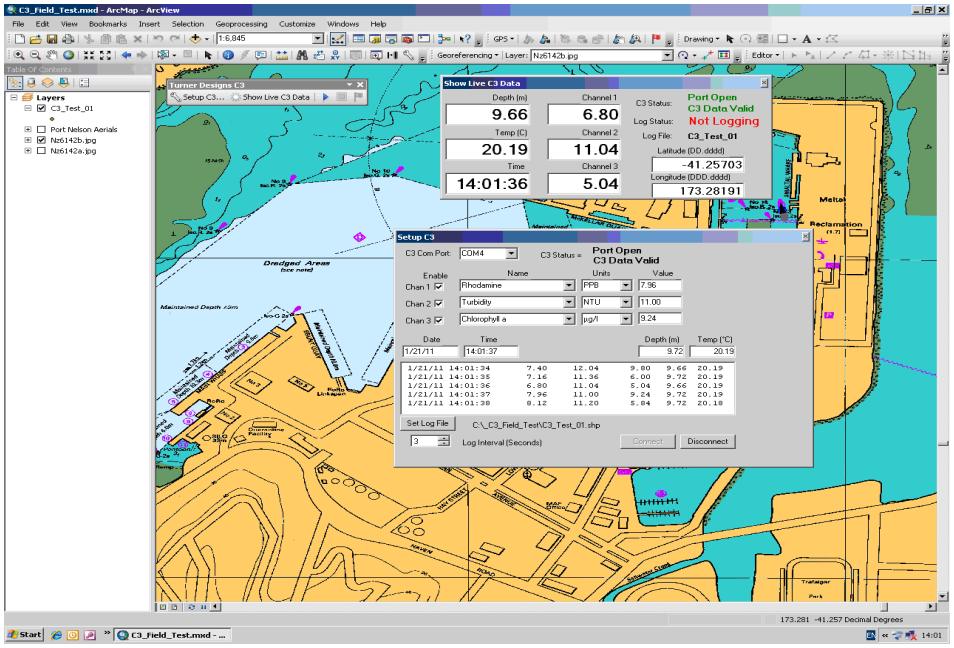
C-FINS Integrates with ArcGIS 10.0



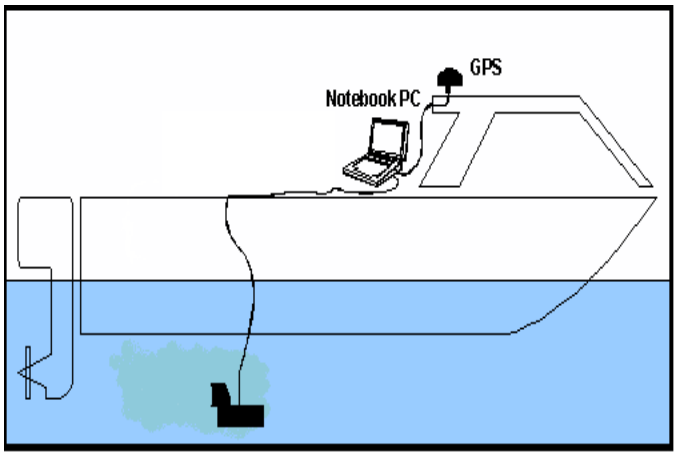
+ CAWTHRON +

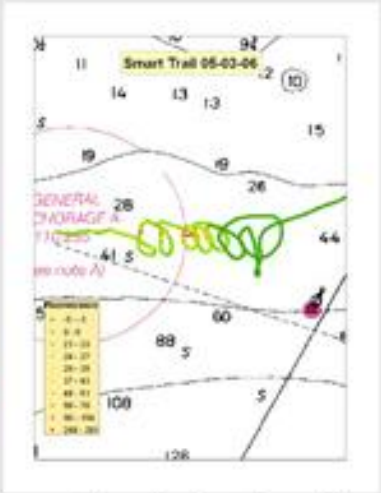
Free software module integrates field data with ArcGIS 10.0 mapping to create graphic representations of field conditions.



C-FINS Overview

PC combines C3 data stream with GPS position data and displays and records the information on the ArcGIS 10.0 system.





Fluorometry and navigational information is displayed in real-time as well as recorded for later analysis.

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What's Needed

Required Components supplied by Turner Designs

- C3 Submersible Fluorometer
- C-ray Tow Body
- C-ray Shade Cap
- 10, 25 or 50 Meter Extender Cable
- Boosters

Other Required Components

- PC with ArcGIS 10.0 Software and at least 2 Com ports
- GPS with RS232 com port output-NEMA format (not USB)
- Power Source

Free Software Download

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Support Software

C-Soft Firmware Upgrade & Software Download for C3 Submersible Fluorometer or C6 Multi-Sensor Platform
Firmware version 2.1 does not allow data output to continue when the instrument's memory is full. We revised the current firmware and released version 2.2 allowing users to continue capturing data output even though the memory's maximum capacity has been reached. We recommend all C3 and C6 users to upgrade to firmware version 2.2 enabling this feature and keeping up to date with the latest functions available for the C3 Submersible Fluorometer and C6 Multi-Sensor Platform.

Users who received their C3 Submersible Fluorometer or C6 Multi-Sensor Platform on or before 02/16/2011 should upgrade their instruments using the Firmware and Software upgrades below to maximize performance of their instrument. **Note: Upgrade is not required for customers using the C3 Submersible Fluorometer for the SMART protocol.**

Firmware Upgrade

Easy to download - firmware upload instructions
TI Downloader Program (required for uploading firmware; 2.3Mb)
C-Soft Hex File Version 2.2 (0.03MB)

C-Soft Software Download

Easy to download - software installation instructions
C-Soft Software Version 2.1 (90.8 MB)

Please contact our Technical Support department if you have questions.

C3 Add-In Module for ArcGIS® 10.0 (for use with C-FINS package)
To use the Add-In Module please do the following:
» Ensure ArcGIS® 10.0 is installed on your PC.
» Download the free C3 Add-In Module (zip file) to your desktop.
» Unzip and open the file and click on the File TD_C3.esriAddIn
» This is a self-extracting file that will add the C3 Add-In Module to your ArcGis 10.0 system.
» Open the C3 Add In Module Quick Start file (pdf) for information on using the Add-In Module

Please contact our Technical Support department if you have questions.

The software add-In module for the C3 can be downloaded from the Support section of the Turner Designs web site.

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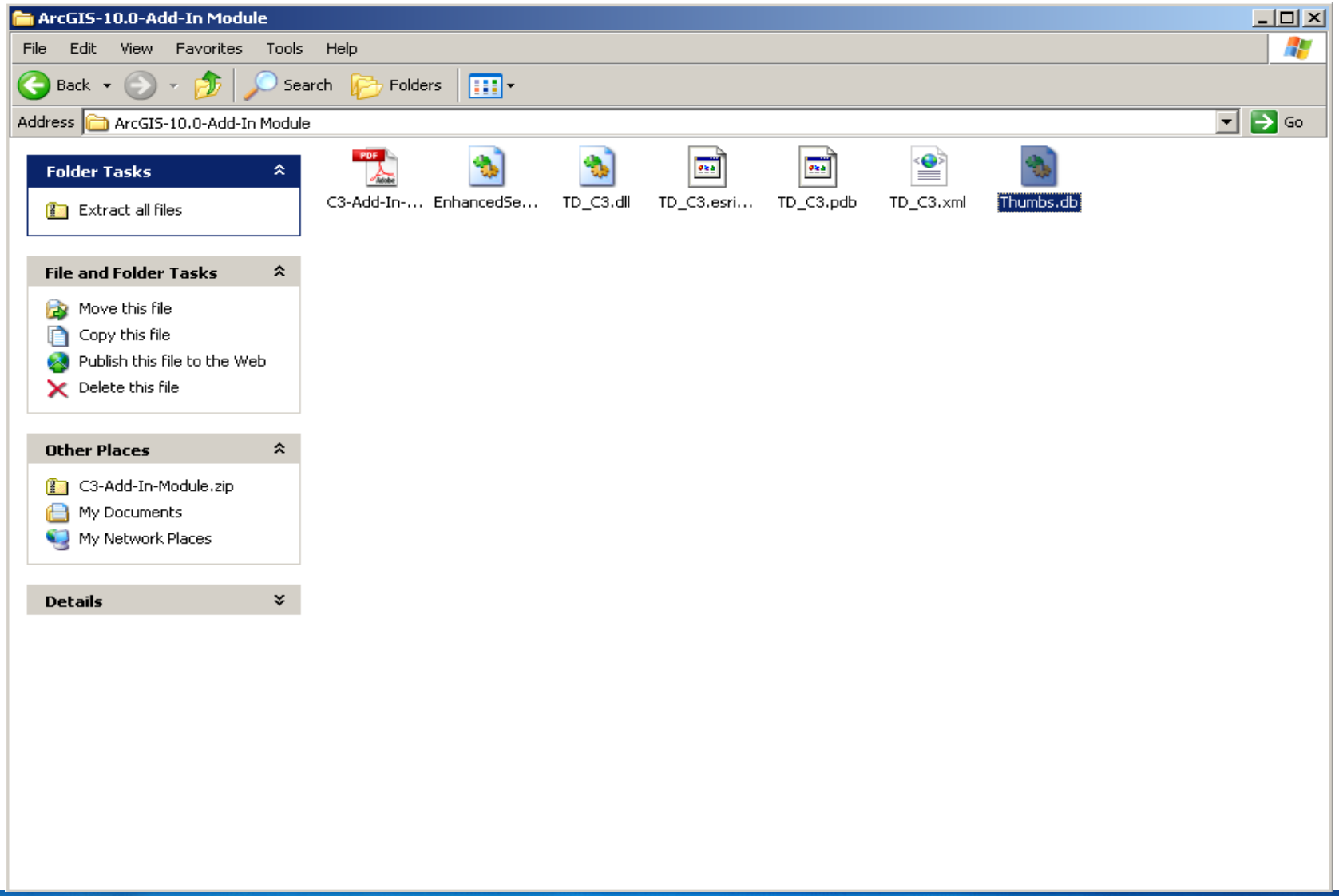
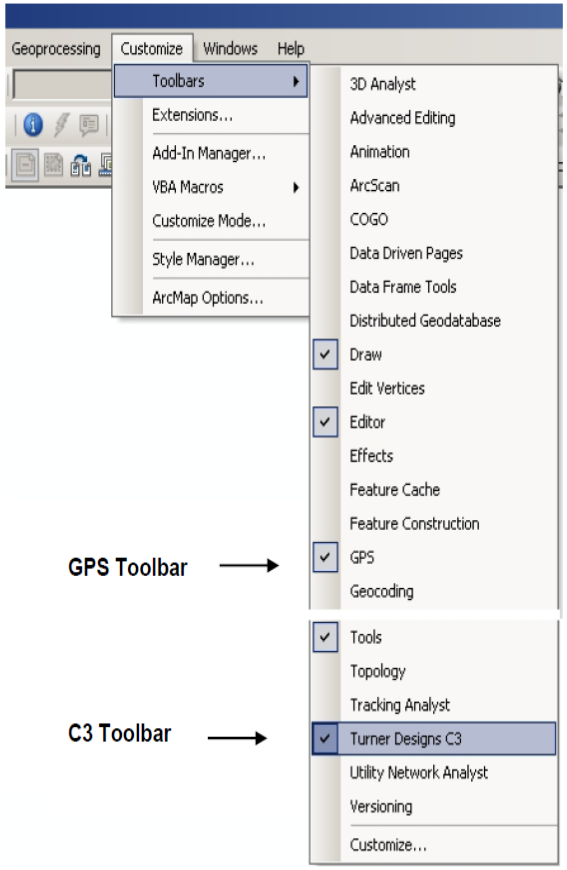
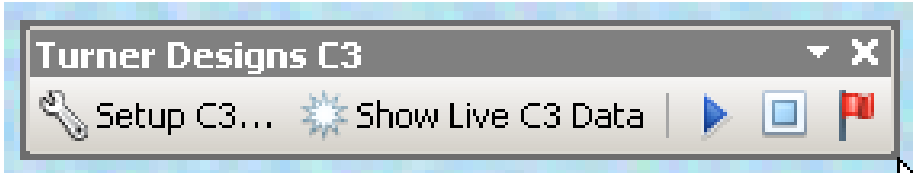
Easy to Set up and Use

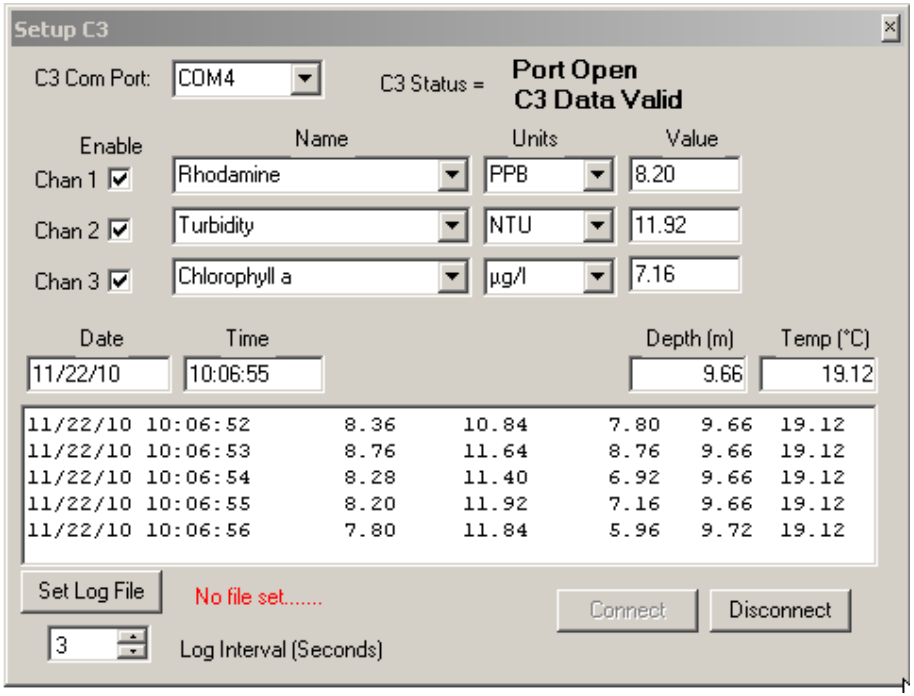


C3-ArcGIS 10.0 Setup

After installing the C3 Add-In Module, select the C3 toolbar







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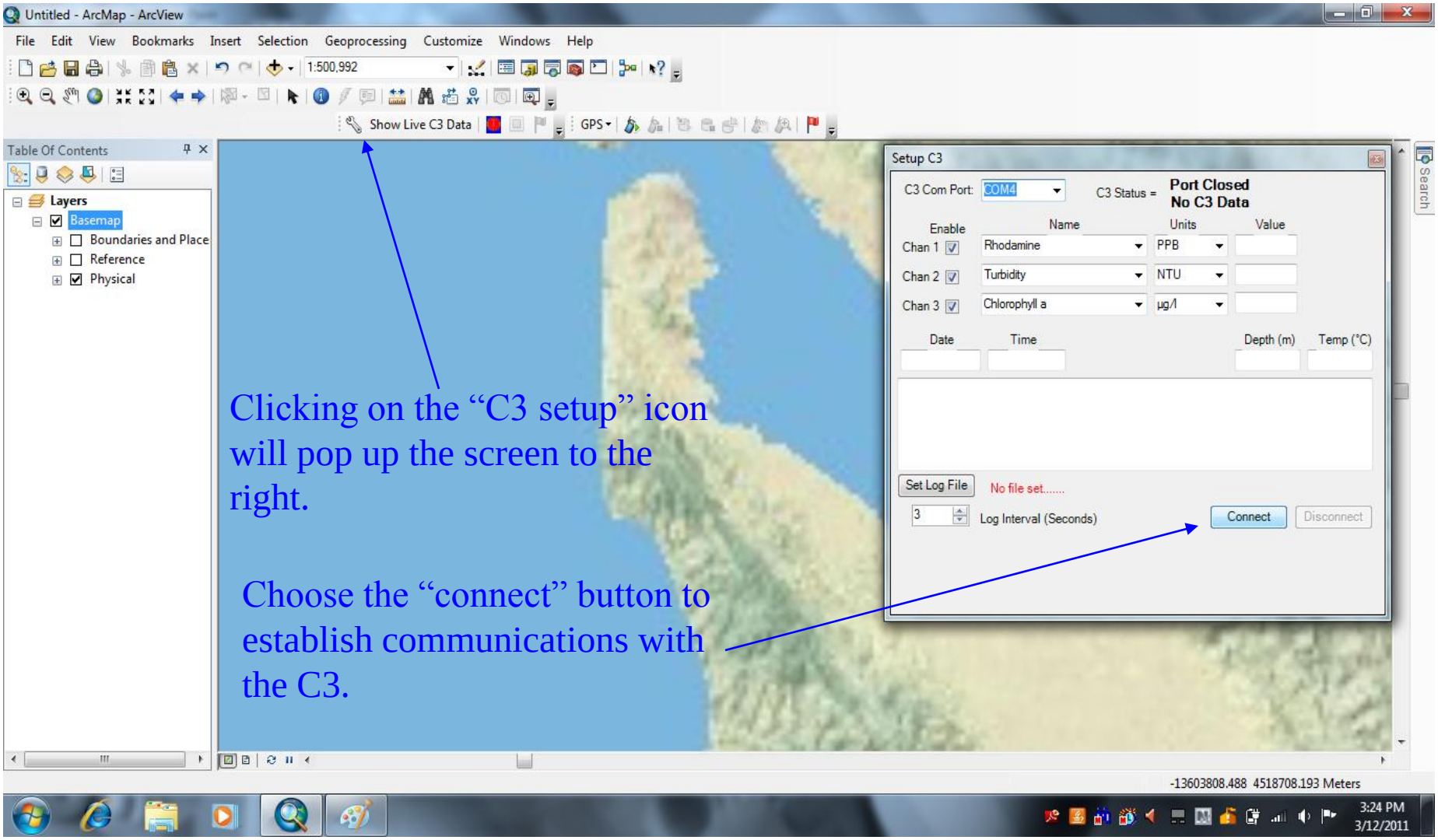
Connect to the C3



Clicking on the "C3 setup" icon will pop up the screen to the right.

Choose the "connect" button to establish communications with the C3.

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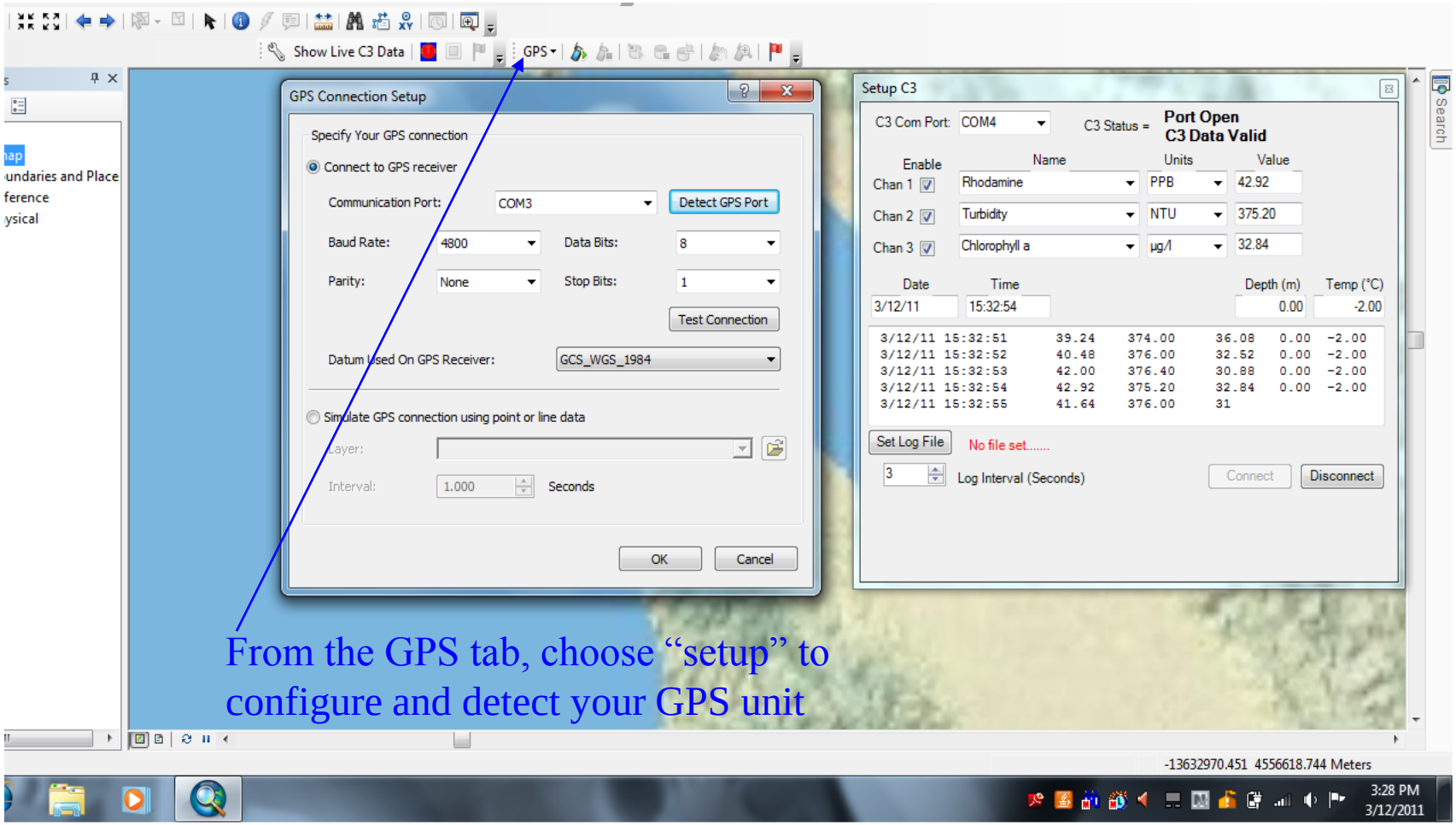
Detect and Set up the GPS



From the GPS tab, choose "setup" to configure and detect your GPS unit

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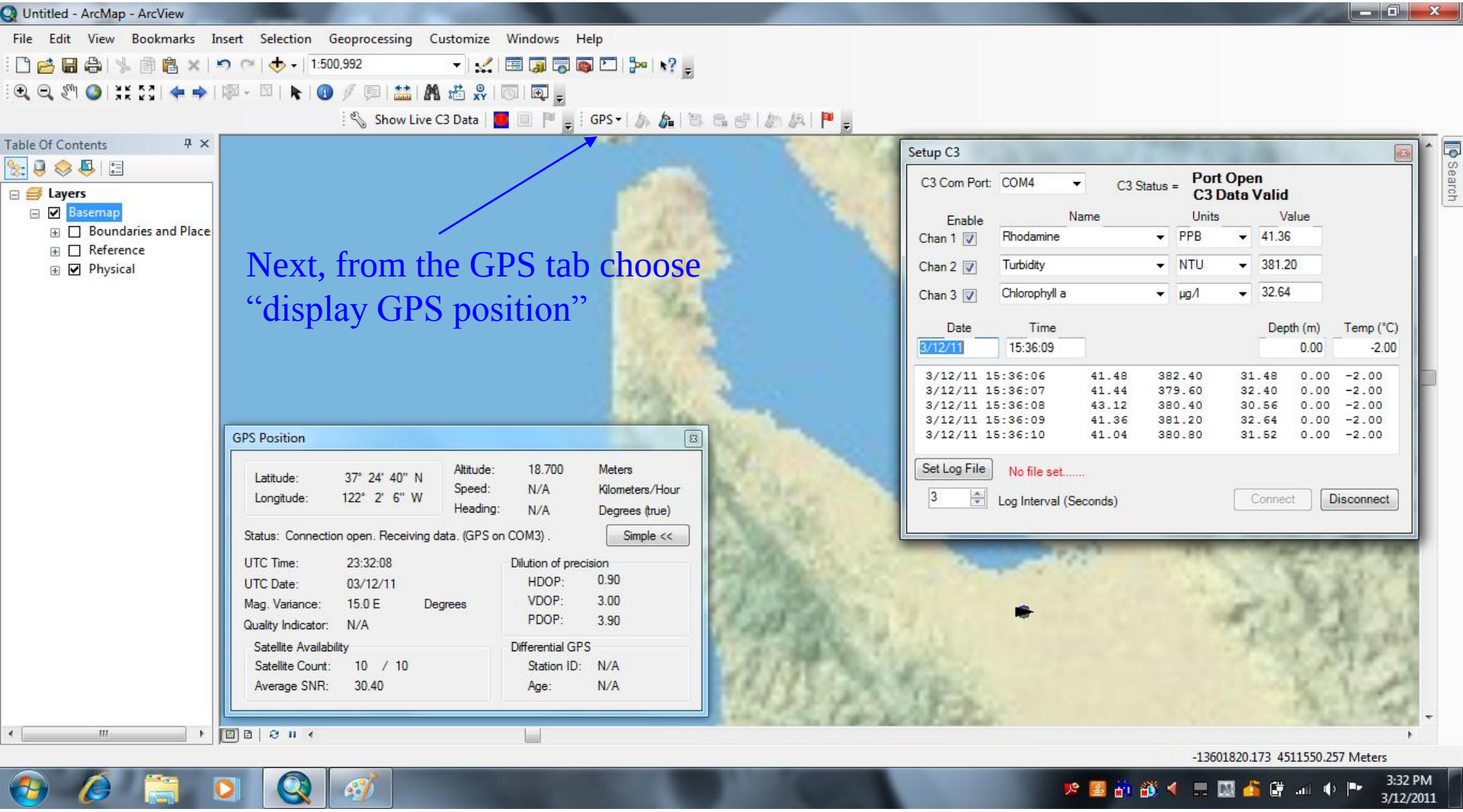
Add the GPS Position Window



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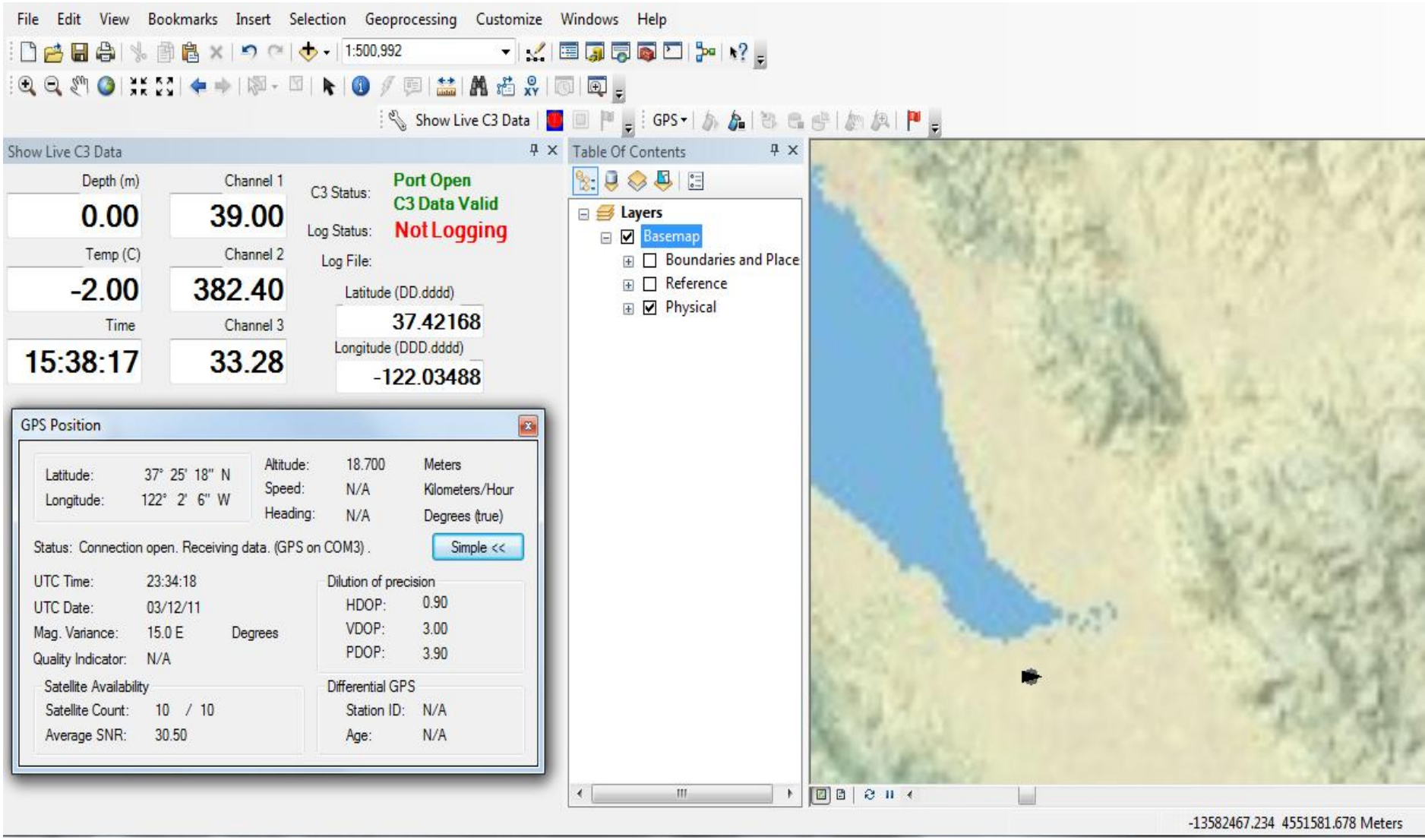
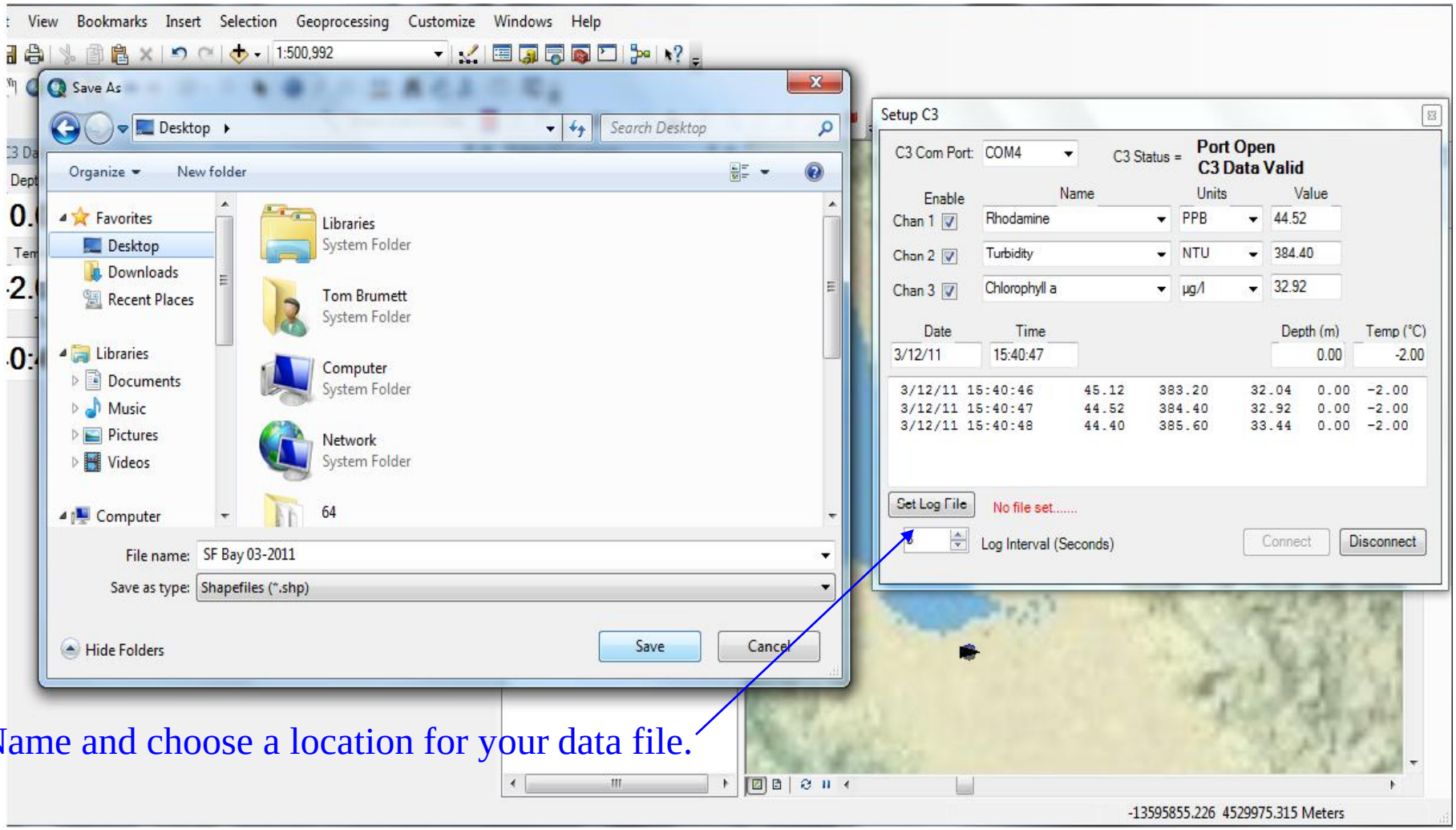
C3 and GPS Live Data

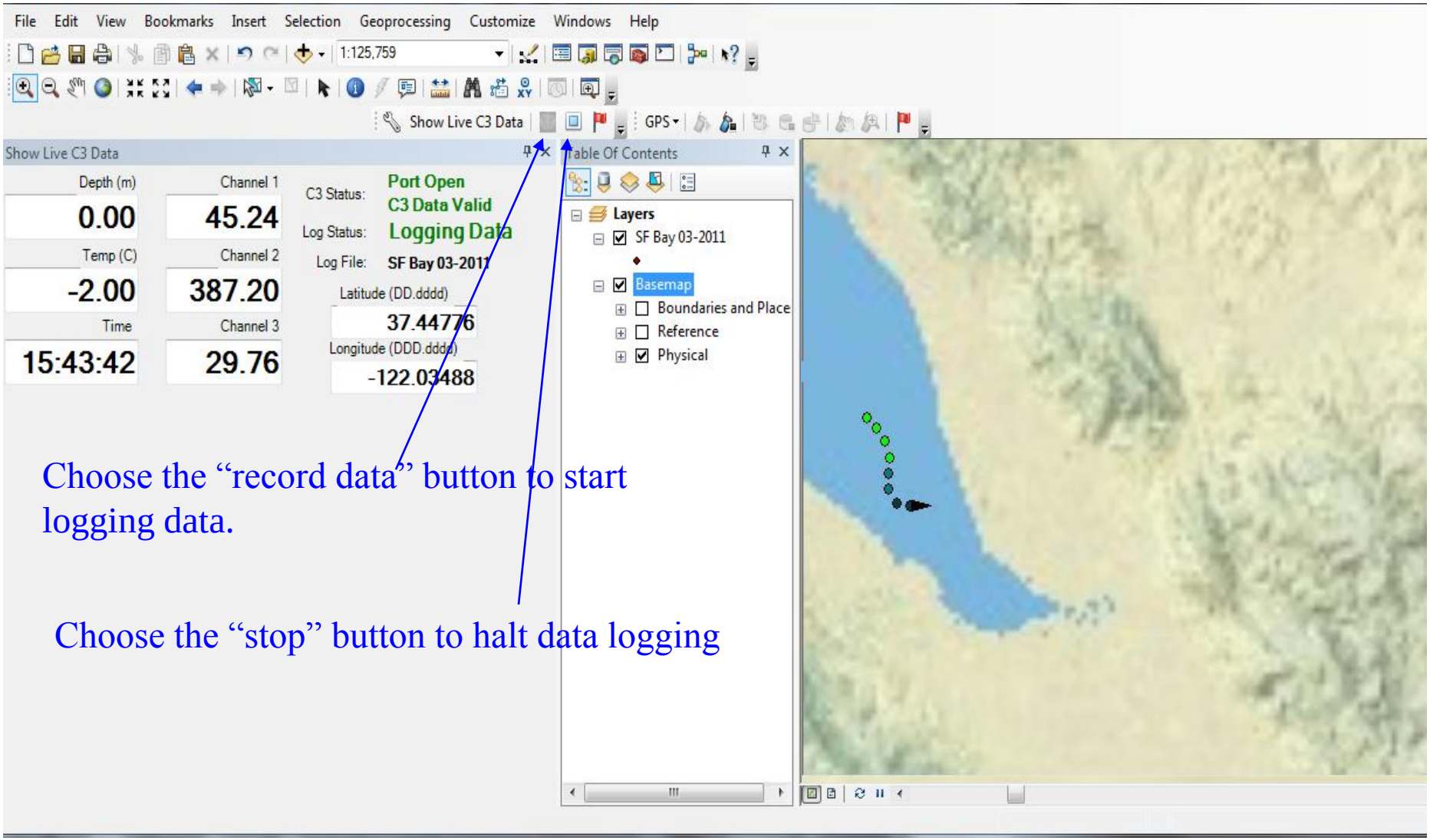


Setting the Log File



Name and choose a location for your data file.

C3 & GPS Logging Data



Choose the "record data" button to start logging data.

Choose the "stop" button to halt data logging

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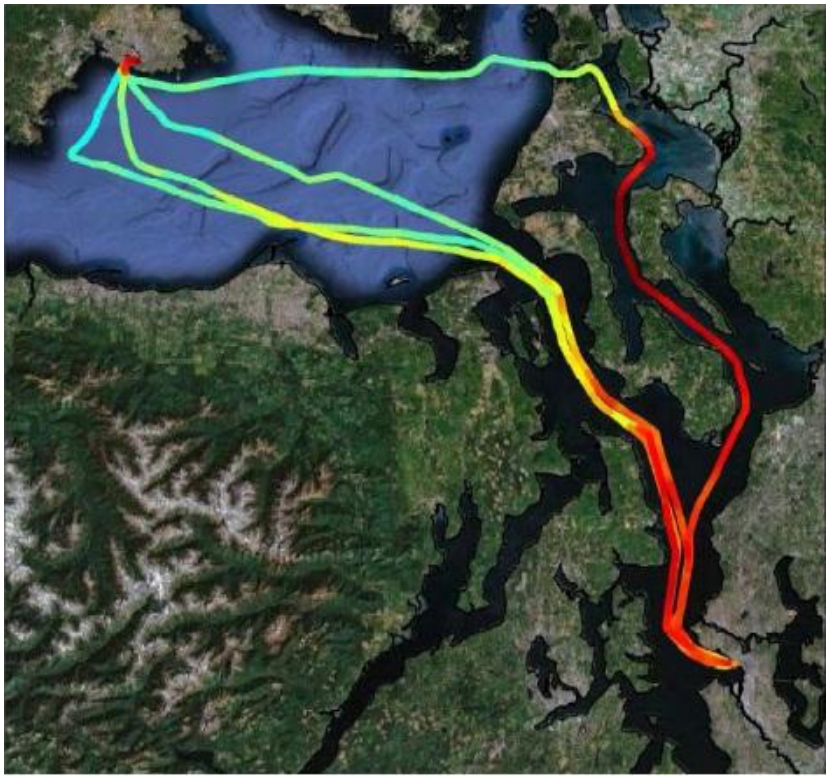
Ready to Go!



C-FINS makes it simple to hit the water and start collecting data.

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Thank You for attending our C-FINS presentation! You can find more information on C-FINS and our other products on the web www.turnerdesigns.com