

## C-FINS Fluorometric Integrated Nautical Mapping System

C-FINS integrates the C3 Submersible Fluorometer's digital output with GPS to enable easy visual mapping of data. A simple software module enables C-FINS and ArcGIS® to work together allowing for real-time mapping of fluorescence, temperature, depth, and turbidity. The ability to capture and integrate these data reliably using the C-FINS package is a powerful tool for researchers.

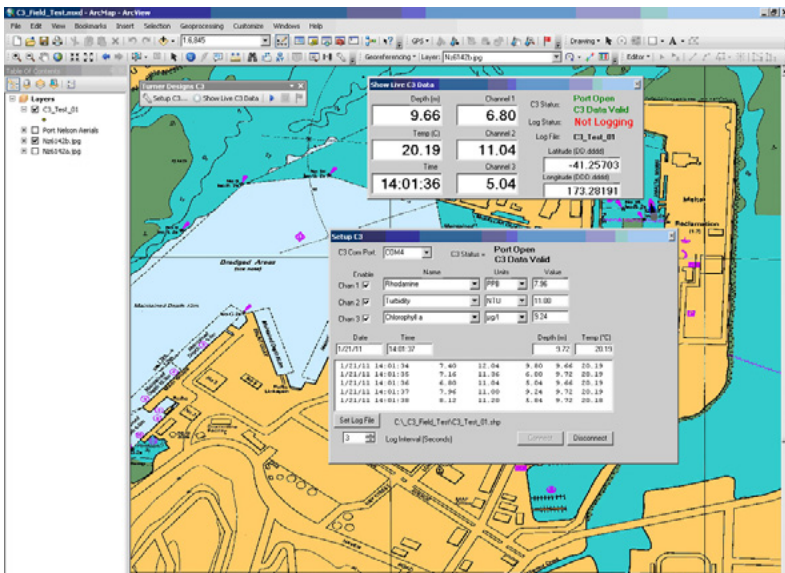


## Highlights of C-FINS

- Simplifies Data Mapping using a GPS-integrated C3 Submersible Fluorometer
- Provides real-time data collection and integration
- Works with industry-standard ArcGIS® 10.0 or 10.1 software
- Simple upgrade for existing C3 Submersible Fluorometers
- Free software add-in available

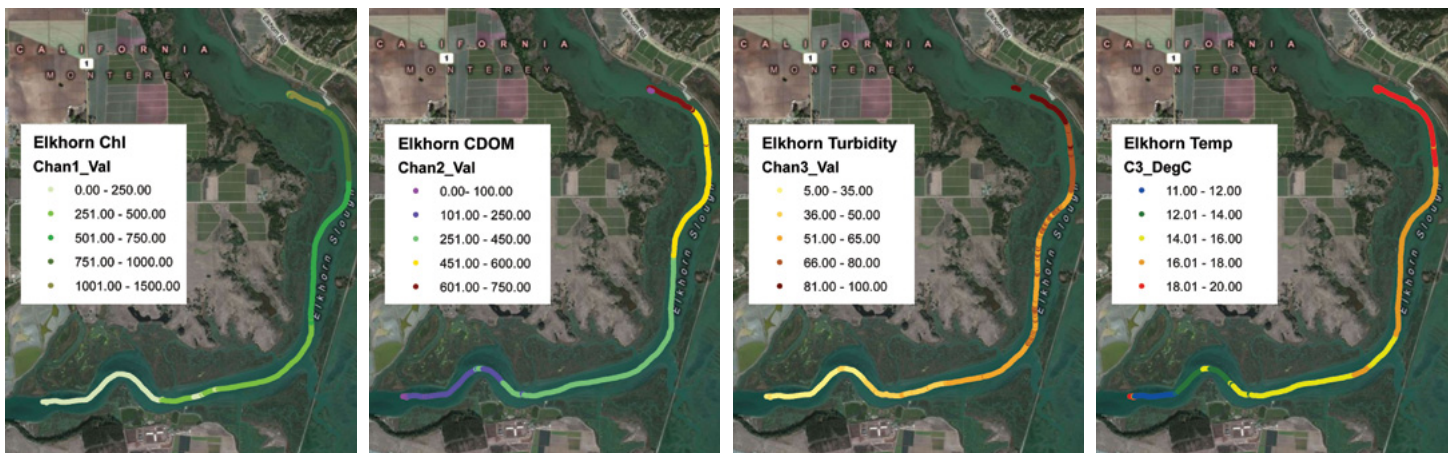
## Available Optical Options

- Blue Green Algae
  - Phycoerythrin (marine)
  - Phycocyanin (freshwater)
- CDOM/FDOM
- Chlorophyll *in vivo*
  - Blue excitation
  - Red excitation
- Fluorescent Dye Tracing
  - Fluorescein
  - PTSA
  - Rhodamine
- Hydrocarbons
  - Crude Oil
  - Refined Fuels
- Turbidity
- Wastewater Monitoring
  - Optical Brighteners
  - Tryptophan



The ArcGIS® 10.0 software data screen running the C3 Add-In Module.

Contact us for Custom Optics



Chlorophyll, CDOM, turbidity and temperature data collected at Elkhorn Slough using C-FINS (the C3 Add-In Module.)

## C3 & C-ray Physical Specifications

Total Weight in Air	9 kg; 20 lbs
Total Length	37.8 cm; 14.9 in
Total Width	49.8 cm; 19.6 in
C-ray Inside Diameter	10.4 cm; 4.1 in
C-ray Housing Material	Powder Coated Low Carbon Steel
C-ray Wings Material	High Strength Plastic
C3 & C-ray Shade-Cap Material	Delrin Plastic
Operating Temperature	-2 to 50 degrees C

## C3 Electrical Specifications

Minimum Power Supply	8 - 30 volts; 5 watts
Output	Digital (ASCII string)
Interface	RS232
Minimum Sample Interval	1 Second
C-ray Towing Speed	1 to 5 knots*

\*Recommended deployment speed depending on water conditions

## Ordering Information

### REQUIRED TURNER DESIGNS COMPONENTS

REQUIRED TURNER DESIGNS COMPONENTS	PART NUMBER
C3 Submersible Fluorometer	2300-000

#### OPTICAL OPTIONS (select 1,2, or 3)

Blue Green Algae - Phycoerythrin	2300-230
Blue Green Algae - Phycocyanin	2300-231
CDOM/FDOM	2300-251
Chlorophyll <i>in vivo</i> (Blue excitation)	2300-200
Chlorophyll <i>in vivo</i> (Red excitation)	2300-203
Crude Oil	2300-253
Fluorescein Dye	2300-220
Optical Brighteners	2300-252
PTSA Dye	2300-250
Refined Fuels	2300-255
Rhodamine Dye	2300-210
Tryptophan	2300-256
Turbidity	2300-240

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C3 Pressure Sensor (factory installed)	2300-360
C-ray Towed Deployment Body	2300-750
C-ray Shade Cap	2300-502
ArcGIS® 10.0 or 10.1 C3 Add-In Module	Free Online Download

#### EXTENDER CABLES (choose one)

Extender Cable 10 meters	105-2595
Extender Cable 25 meters (requires boosters)	105-2596
Extender Cable 50 meters (requires boosters)	105-2597
Boosters (required for cables > 10 meters)	2200-900

## Contact Us

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### OTHER REQUIRED COMPONENTS

PC with ArcGIS® 10.0 or 10.1 Software and at least 2 com ports  
 GPS with RS232 com port output - NMEA format (not USB)  
 Power Source

### OPTIONAL ACCESSORIES FROM TURNER DESIGNS

OPTIONAL ACCESSORIES FROM TURNER DESIGNS	PART NUMBER
12V DC Power Supply Car Adapter	2900-151
C3 Mechanical Wiper (factory installed)	2300-450
Antifouling Copper Tape (15)	2300-506
C3 Solid Secondary Standard	2300-901
UV Solid Secondary Standard	2300-902



Turner Designs would like to acknowledge Paul Barter and the Cawthron Institute for the development of the ArcGIS® C3 Add-In Module.