

## Algal Classification

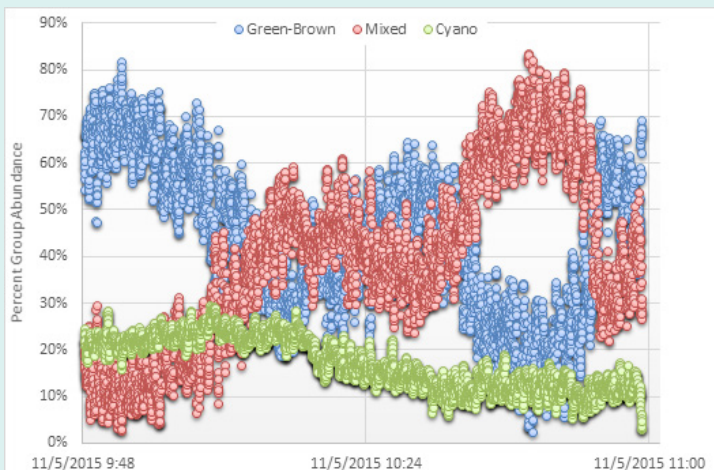


## Total Chlorophyll

PhytoFind is an *in situ* Algal Classification tool that distinguishes among algal groups. Real-time abundance estimates are calculated for PE-containing algae (mixed group), PC-containing algae (Cyanophyceae), and total algae (green/brown). Automatic correction for dissolved organic materials (DOM) provides more accurate real-time estimates. Interference from turbidity is minimal. Group percent estimates are displayed and logged along with temperature, depth, and chlorophyll ( $\mu\text{g/L}$ ) concentrations, enabling calculation of chlorophyll concentrations per algal group.

### PhytoFind Highlights

- Real-Time Abundance Estimates
- Automatic DOM Correction
- Factory Calibrated
- High Frequency Sampling
- Depth and Temperature included



PhytoFind is field-ready; no calibration is required. Solid-state optoelectronics ensure long term instrument stability and reliability. Factory-installed temperature and depth sensors are included in the standard PhytoFind package. A mechanical wiper can be factory installed to minimize biofouling. The durable delrin housing is resistant to harsh environments. Antifouling materials such as copper enable long term deployments. A large internal memory storage and a high capacity external battery make the PhytoFind ideal for many applications.

## Optical Specifications

MDL: 0.5 µg/L chlorophyll  
 Max Range: 0-250 µg/L chlorophyll  
 Sensor Light Source:  
 - Light Emitting Diode (LED)  
 Detector: Photodiode

## Physical Specifications

Weight in Air: 2.87 kg; 6.33 lbs  
 Length: 27.43 cm; 10.8 in  
 Diameter: 13.84 cm; 5.25 in  
 Material: Delrin Plastic  
 Operating Temperature: -2 to 50° C  
 Depth: 0 to 600 meters

## Electrical Specifications

Minimum Sample Interval: 1 second  
 Internal Data Storage Capacity:  
 - Over 60,000 Data Points  
 Download File Format: \*.csv  
 Interface: RS232  
 Data Output: Digital (ASCII)  
 DC Power Required:  
 - 8 - 30 volts; 2.2 ampere  
 Maximum Current Draw @ 12 volts:  
 - Operational Mode: 300 mA  
 - Sleep Mode: 3 mA

## Ordering Information

INSTRUMENT	PART NUMBER
PhytoFind <i>in situ</i> Algal Classification with Wiper	2380-000
PhytoFind <i>in situ</i> Algal Classification	2380-001

ACCESSORIES	PART NUMBER
Solid Reference Standard	2380-900
Shade Cap	2360-500
Shade Cap Weight	2360-510
Flow Cap	2360-700
Antifouling Copper Plate	2360-507
Submersible Battery Pack	2200-601
Battery Bracket	2360-603
High Capacity Submersible Battery Pack	3200-600
High Capacity Battery Bracket	2360-605
0.6 Meter Pigtail Communication Cable	2200-170
10 Meter Extender Cable	105-2595
25 Meter Extender Cable*	105-2596
50 Meter Extender Cable*	105-2597
Boosters (set of 2)*	2200-900

\*Boosters are required for cable lengths greater than 10 meters

## Contact Us

Toll-Free : 1.877.316.8049

Email : [sales@turnerdesigns.com](mailto:sales@turnerdesigns.com)

Address:

Phone : 408.749.0994

Web : [www.turnerdesigns.com](http://www.turnerdesigns.com)

1995 N. 1st Street

Fax : 408.749.0998

San Jose, CA 95112