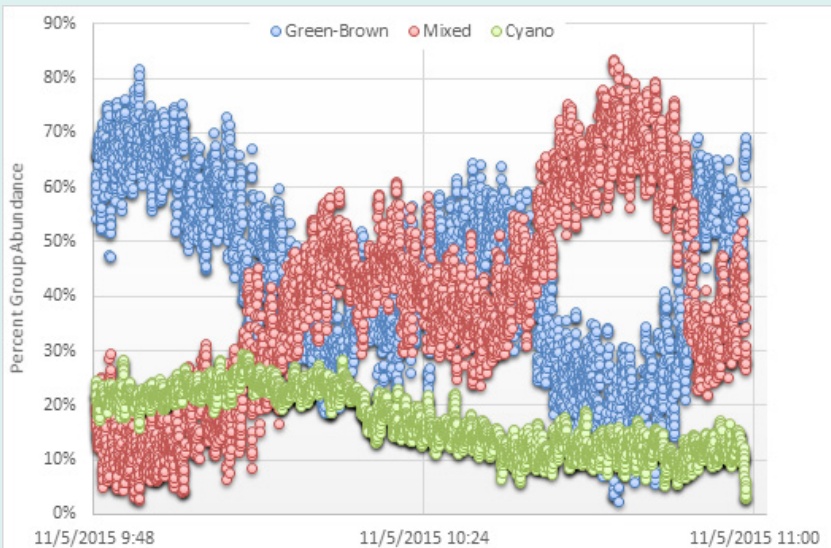


## Estimate Abundance of Algal Groups

### PhytoFind™ *in situ* Algal Classification

PhytoFind is an *in situ* Algal Classification tool that distinguishes among algal groups using specific fluorescence signatures. Real-time abundance estimates are calculated for PE-containing algae (mixed group), PC-containing algae (Cyanophyceae), and total algae (all other algal groups). Calculations include an automatic correction for interference from dissolved organic materials (DOM) providing more accurate real-time estimates. Optics are optimized to minimize interference from turbidity. Abundances are displayed and logged as group percentages along with temperature, depth, and chlorophyll ( $\mu\text{g/L}$ ) concentrations.



### PhytoFind Highlights

- Real-Time Abundance Estimates
- Multiple Operation Modes
  - Profiling, Mooring, Towing
  - Maximum Sampling Rate is 1 second
- Integrate with Third Party Systems
  - ASCII String Output
- Depth and Temperature included
- Factory Calibrated

PhytoFind is factory-calibrated; no calibration standards or tools are 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 on optical components. The durable delrin housing is highly resistant to harsh environments and additional antifouling materials such as copper can be purchased for long term deployments. A large capacity for internal memory storage (over 60,000 data points) and a high capacity (6600 mAh) external submersible lithium ion battery make the PhytoFind an ideal instrument for almost any environment or application.

## Optical Specifications

MDL: 0.5 µg/L chlorophyll

Max Range: 0-250 µg/L chlorophyll

Excitation Wavelengths:

- 365 (UV)
- 470 (Blue)
- 530 (Green)
- 650 (Red)

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

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