

Algal Classification

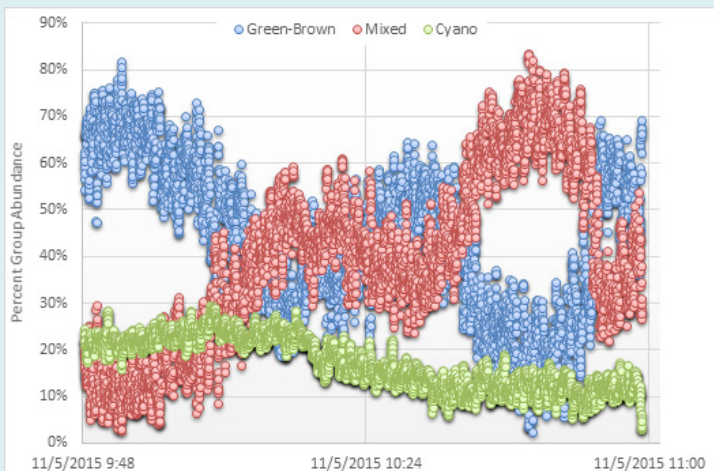


Total Chlorophyll

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 (Cyanobacterial groups), and total algae (green/brown groups). Estimates are reported as chlorophyll $\mu\text{g/L}$ concentrations as well as percent contribution per group relative to the whole phytoplankton population sampled. Automatic correction for dissolved organic materials (DOM) provides increased accuracy for real-time estimates when in DOM rich environments. The optical filters used in PhytoFind's sensors greatly reduce interference from suspended sediments.

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. The durable delrin housing is resistant to harsh environments. An antifouling copper plate and mechanical copper wiper can be factory installed to minimize biofouling for long term deployments. With a large internal memory and multiple accessories such as a high capacity external battery, the PhytoFind is an ideal instrument 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 w/ Copper 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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