

# BOSS

## Bio-Optical Sensor Systems

The BOSS integrated sensors for optical profiling floats were developed by Satlantic and WETLabs in close coordination with key international scientists for ocean colour satellite calibration/validation and ocean carbon studies.

### Features





















































- Flexible modular design
- Integrated power and telemetry
- Efficient power switching and sampling strategies for extended deployments
- Optimized sensor mounting configurations

### Applications

- Ocean colour satellite calibration and validation
- Ocean carbon studies
- Ocean biogeochemical and ecosystem modelling
- Climate change impact studies



## System Options

Sensors	Parameters	BOSS	BOSS Lite	BOSS Mini	Rem A	Rem B
Ancillary	Time					
	Heading, Pitch, Roll					
Radiometric <sup>1</sup>	PAR					
	$E_d(380\text{ nm})$					
	$E_d(412\text{ nm})$					
	$E_d(443\text{ nm})$					
	$E_d(490\text{ nm})$					
	$E_d(555\text{ nm})$					
	$L_U(412\text{ nm})$					
	$L_U(443\text{ nm})$					
	$L_U(490\text{ nm})$					
	$L_U(455\text{ nm})$					
Fluorescence	Chlorophyll					
	CDOM					
Back Scatterings	$b_b(412\text{ nm})$					
	$b_b(440\text{ nm})$					
	$b_b(700\text{ nm})$					
	$b_b(532\text{ nm})$ <sup>2</sup>					
	$c(650\text{ nm})$					

<sup>1</sup> Other standard wavelengths available upon request.

<sup>2</sup>  $b_b(532\text{ nm})$  can be substituted for CDOM on RemOcean A and B sensors.