

## WET Labs ECO Centroid Angles for Back Scatter Measurements

July 2016

The WET Labs' ECO sensors have multiple back scattering angles depending upon type of sensor. This document will describe these angles based upon the type of ECO sensor selected by the customer.

### Single Channel Sensors:

WET Labs' single channel ECO back scatter sensors have an in-water centroid angle of 124°. These include the following ECO models: bb, NTU.

### Dual Channel Sensors:

WET Labs' dual channel ECO back scatter sensors (back scatter at 700nm paired with chlorophyll fluorescence) have an in-water centroid angle of 142°. These include the following ECO models: FLNTU and FLBB versions along with OEM variants of these sensors (AP2, 2K, SLC, RTD, SB variants).

### Three Channel Sensors:

WET Labs' three channel ECO back scatter sensors (individually paired LED source with detector) have an in-water centroid angle of 124°. These include the following ECO models: bb3, BBFL2, BB2FL and Triplet-w family.

### Combined Three Channel Sensors:

WET Labs' combined three channel ECO back scatter sensors (back scatter at 700nm paired with chlorophyll fluorescence along with either another back scatter or FDOM channel) have an in-water centroid angle of 124°. These include the following ECO models: FLBB-CD, FLBB-BB along with OEM variants of these sensors (2K, AP2, SLC, REM, BOSS, 6K).

### MCOMS and SeaOWL UV-A:

WET Labs' MCOMS and SeaOWL UV-A back scatter sensors (back scatter at 700nm paired with chlorophyll fluorescence along with either another back scatter or FDOM channel) have an in-water centroid angle of 150°.

+1 541 929 5650 | [wetlabs@wetlabs.com](mailto:wetlabs@wetlabs.com)