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## ECO CDOM Fluorometer Characterization Sheet

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S/N: BB2FLB-1410

CDOM concentration expressed in ppb can be derived using the equation:

$$\text{CDOM (ppb)} = \text{Scale Factor} * (\text{Output} - \text{Dark Counts})$$

<b>Dark Counts</b>	<b>Digital</b> 47 counts
<b>Scale Factor (SF)</b>	0.0901 ppb/count
<b>Maximum Output</b>	4130 counts
<b>Resolution</b>	1.1 counts
Ambient temperature during characterization	22.0 °C

**Dark Counts:** Signal output of the meter in clean water with black tape over detector.

**SF:** Determined using the following equation:  $SF = x \div (\text{output} - \text{dark counts})$ , where  $x$  is the concentration of the solution used during instrument characterization. SF is used to derive instrument output concentration from the raw signal output of the fluorometer.

**Maximum Output:** Maximum signal output the fluorometer is capable of.

**Resolution:** Standard deviation of 1 minute of collected data.