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SEASOFT COEFFICIENTS
FOR THE BIOSPHERICAL PAR LIGHT SENSOR
S/N 70648

Your Sea-Bird Instrument has been configured to record light data from a BIOSPHERICAL Quantum sensor. The 0 – 5 volt output of this sensor corresponds on a logarithmic scale to light measurement over the measurement range.

Make the following entries in SEASOFT

M	=	1
B	=	0

From the Biospherical calibration sheet obtain:

C_w	=	Calibration Factor ($\mu\text{Einstein}/\text{cm}^2 \cdot \text{sec}$ per volt)
	=	9.81E-06
V	=	Average Dark Voltage (Volts)
	=	0.0022

Calculate the following coefficients:

Calibration Constant	=	Seasoft Calibration Coefficient
	=	$10^5 / C_w$
	=	1.0194E+10
Offset	=	$-(10^4 * C_w * 10^V)$ (V is the dark voltage)
	=	-0.098598205
Multiplier	=	1

Set multiplier to 1 for output in $\mu\text{Einstein}/\text{m}^2\text{sec}$. See Application Note 11 General for information on output in units other than $\mu\text{Einstein}/\text{m}^2\text{sec}$. See Application Note 11QSP-L for information regarding this calibration sheet.