

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1860  
CALIBRATION DATE: 28-Jun-12

SBE4 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## GHIJ COEFFICIENTS

g = -4.00124228e+000  
h = 5.16831814e-001  
i = -5.41494653e-004  
j = 5.38476603e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.36879110e-006  
b = 5.15004052e-001  
c = -3.99572065e+000  
d = -8.78239594e-005  
m = 5.1  
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.78536	0.00000	0.00000
-1.0000	34.9151	2.81179	7.89034	2.81182	0.00003
1.0000	34.9163	2.98370	8.09817	2.98367	-0.00002
15.0000	34.9183	4.28280	9.52152	4.28275	-0.00005
18.5000	34.9180	4.63040	9.86706	4.63044	0.00004
29.0000	34.9165	5.71688	10.87462	5.71692	0.00004
32.5000	34.9086	6.09026	11.19932	6.09023	-0.00003

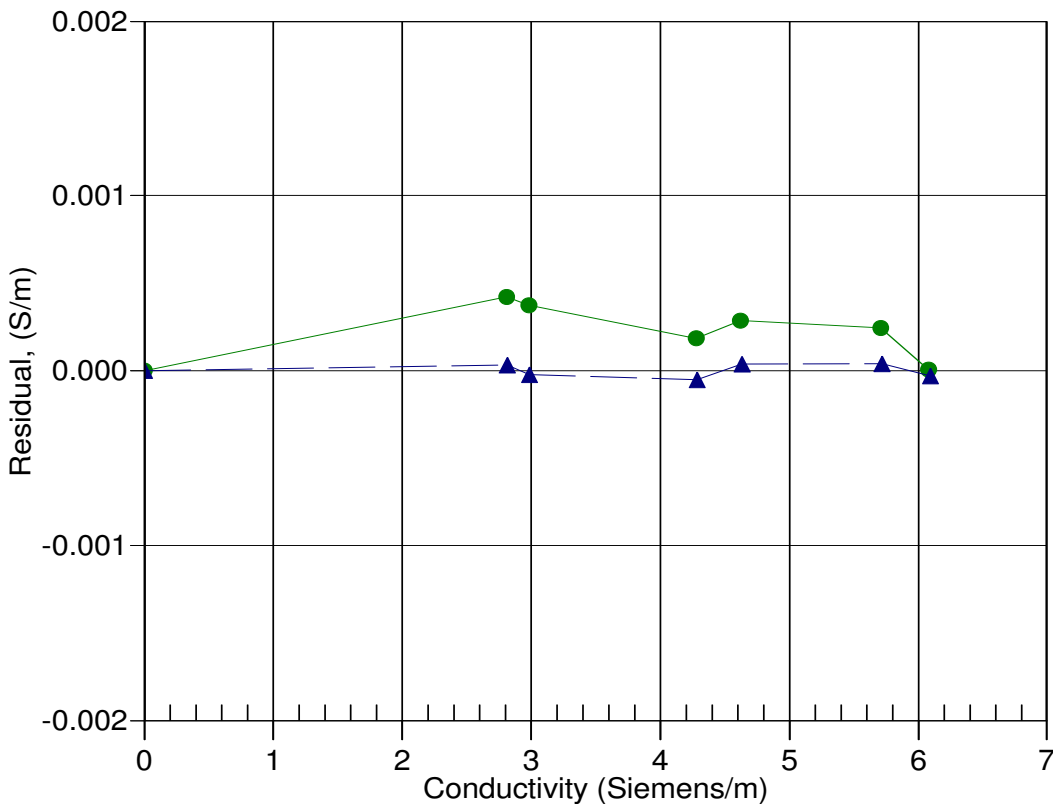
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

t = temperature[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



● 08-Dec-10 0.9999538  
▲ 28-Jun-12 1.0000000