

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3861  
CALIBRATION DATE: 26-Oct-12

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

## GHIJ COEFFICIENTS

g = -1.02421212e+001  
h = 1.36188614e+000  
i = -8.27337587e-004  
j = 1.27736198e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 8.02156392e-006  
b = 1.35996028e+000  
c = -1.02386562e+001  
d = -8.60328337e-005  
m = 4.9  
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	2.74368	0.00000	0.00000
-1.0000	34.6190	2.79016	5.29383	2.79019	0.00003
1.0000	34.6202	2.96080	5.41079	2.96077	-0.00003
15.0000	34.6205	4.25013	6.22377	4.25010	-0.00002
18.5000	34.6199	4.59512	6.42377	4.59513	0.00002
29.0000	34.6164	5.67325	7.01175	5.67328	0.00003
32.5000	34.6080	6.04376	7.20261	6.04374	-0.00002

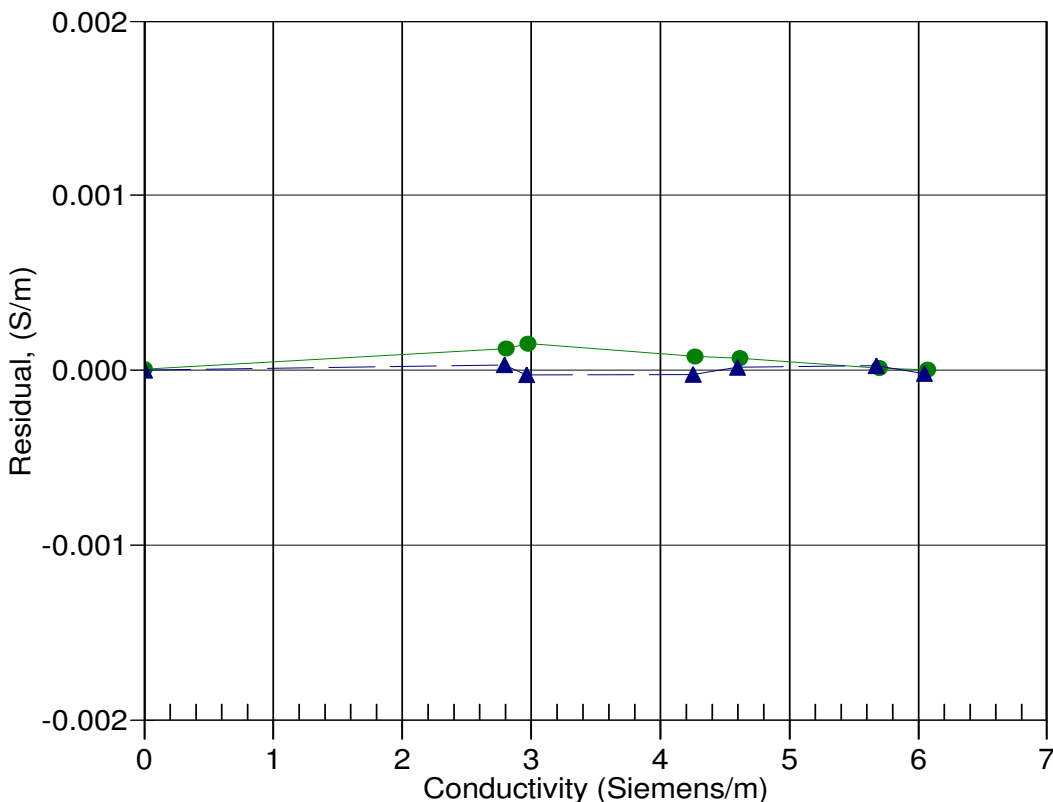
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



15-Aug-12 0.9999879  
26-Oct-12 1.0000000