

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3923  
CALIBRATION DATE: 20-Sep-13

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

## GHIJ COEFFICIENTS

g = -1.02425286e+001  
h = 1.34390544e+000  
i = -4.56097937e-004  
j = 1.11088871e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 3.66433210e-005  
b = 1.34283796e+000  
c = -1.02403881e+001  
d = -8.31133780e-005  
m = 4.3  
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	2.76112	0.00000	0.00000
-0.9999	34.8419	2.80645	5.33748	2.80645	-0.00001
1.0000	34.8423	2.97798	5.45551	2.97798	0.00001
15.0000	34.8430	4.27454	6.27580	4.27455	0.00001
18.5001	34.8428	4.62151	6.47756	4.62150	-0.00001
29.0001	34.8418	5.70603	7.07089	5.70604	0.00000
32.5001	34.8359	6.07903	7.26363	6.07903	0.00000

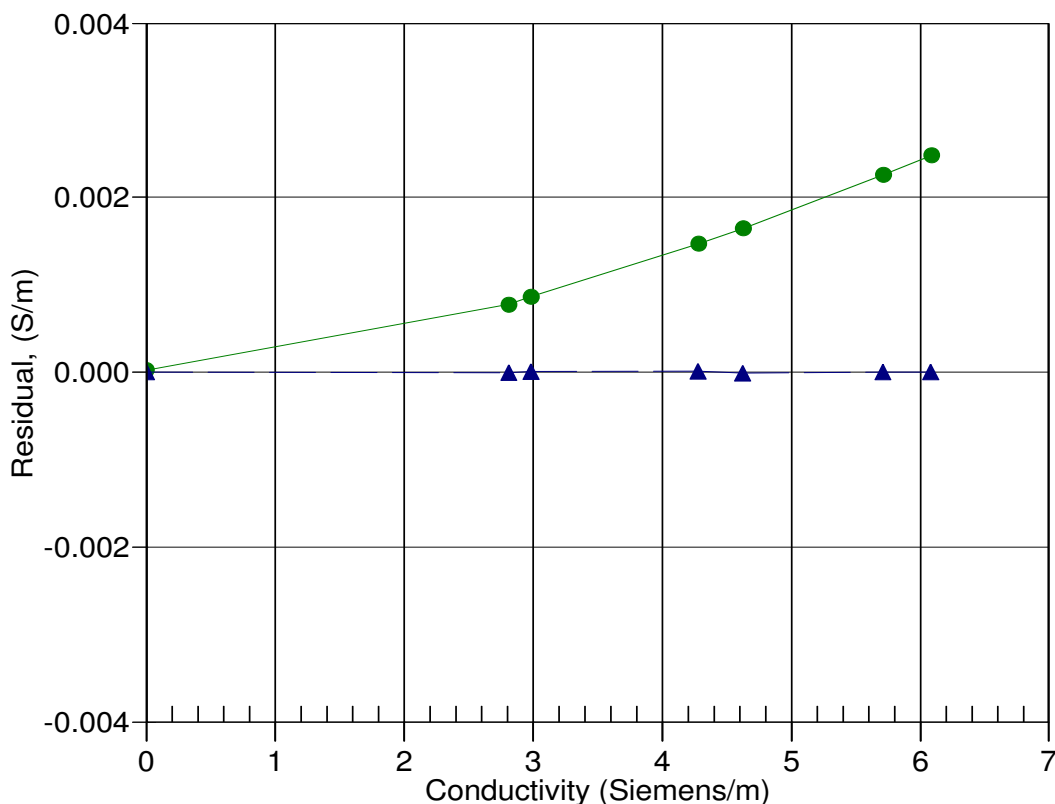
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



06-Dec-11 0.9996312  
20-Sep-13 1.0000000