

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1896  
CALIBRATION DATE: 07-Feb-14

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

## GHIJ COEFFICIENTS

g = -4.09713648e+000  
h = 5.23614399e-001  
i = -1.20049624e-003  
j = 8.87164163e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 8.79434696e-008  
b = 5.18886463e-001  
c = -4.07971063e+000  
d = -6.44409755e-005  
m = 6.2  
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	2.80443	0.00000	0.00000
-0.9999	34.6189	2.79016	7.84704	2.79013	-0.00003
1.0000	34.6187	2.96068	8.05317	2.96072	0.00004
15.0000	34.6174	4.24979	9.46441	4.24977	-0.00002
18.5000	34.6166	4.59473	9.80690	4.59472	-0.00001
29.0001	34.6137	5.67287	10.80552	5.67292	0.00005
32.5000	34.6040	6.04314	11.12698	6.04311	-0.00003

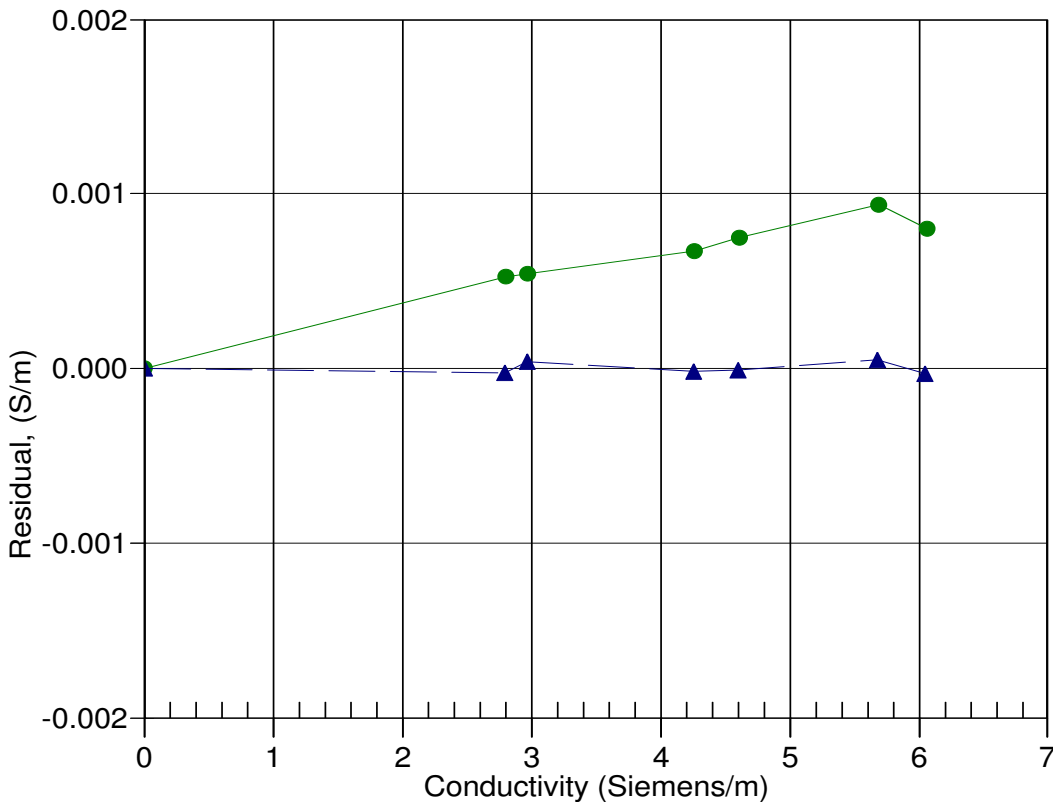
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 12-Jul-12 0.9998439  
▲ 07-Feb-14 1.0000000