

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1029  
CALIBRATION DATE: 03-Aug-12

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

### GHIJ COEFFICIENTS

g = -4.20316213e+000  
h = 5.69798051e-001  
i = -1.00568882e-004  
j = 3.59744317e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

### ABCDM COEFFICIENTS

a = 1.74628965e-005  
b = 5.69599260e-001  
c = -4.20310328e+000  
d = -9.07011913e-005  
m = 4.2  
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	2.71600	0.00000	0.00000
-0.9999	34.7214	2.79765	7.50666	2.79767	0.00002
1.0000	34.7225	2.96871	7.70299	2.96870	-0.00001
15.0001	34.7240	4.26150	9.04858	4.26146	-0.00003
18.5000	34.7240	4.60744	9.37552	4.60746	0.00002
29.0001	34.7234	5.68882	10.32965	5.68886	0.00004
32.5001	34.7178	6.06076	10.63759	6.06074	-0.00003

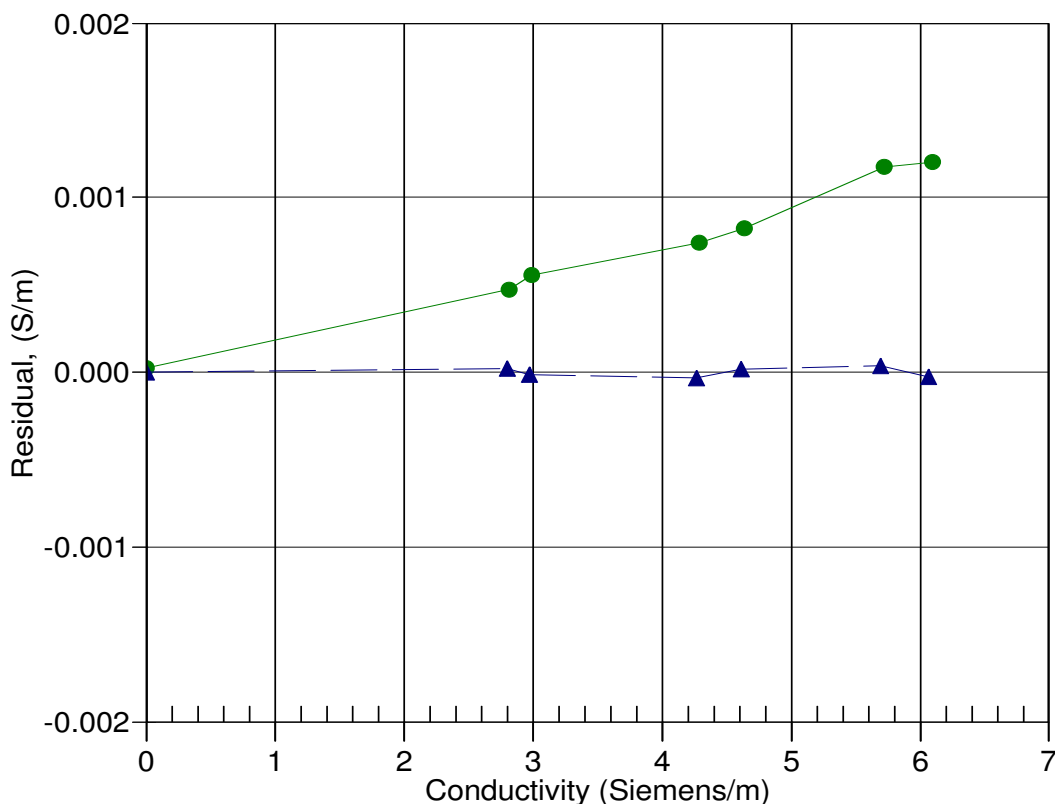
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 21-Jun-11 0.9998105  
▲ 03-Aug-12 1.0000000