

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1030  
CALIBRATION DATE: 18-Jul-13

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

## GHIJ COEFFICIENTS

g = -4.06917682e+000  
h = 5.73397006e-001  
i = -3.31674836e-005  
j = 3.48997900e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 3.25182491e-005  
b = 5.73276136e-001  
c = -4.06878646e+000  
d = -8.22381018e-005  
m = 4.0  
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	2.66357	0.00000	0.00000
-1.0000	34.8468	2.80680	7.47537	2.80681	0.00001
1.0001	34.8476	2.97839	7.67171	2.97840	0.00000
15.0001	34.8492	4.27523	9.01666	4.27523	0.00000
18.5000	34.8497	4.62232	9.34329	4.62228	-0.00004
29.0001	34.8487	5.70704	10.29645	5.70712	0.00009
32.5001	34.8447	6.08039	10.60414	6.08034	-0.00005

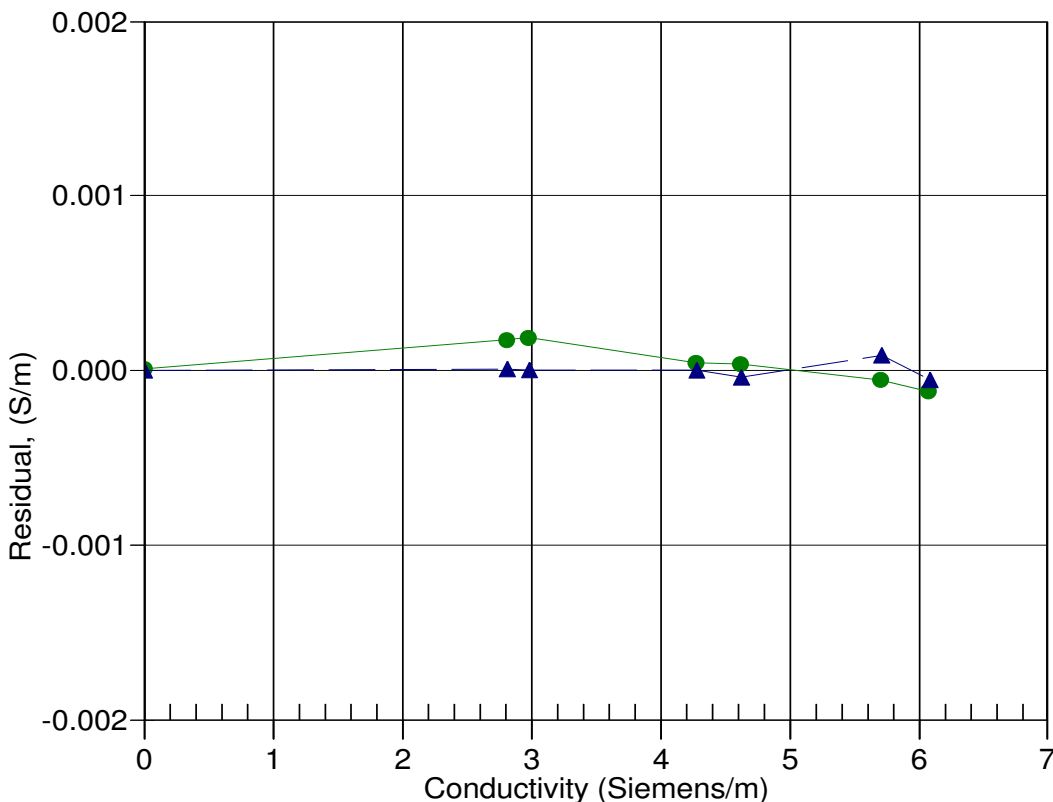
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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



● 13-Mar-12 0.9999973  
▲ 18-Jul-13 1.0000000