

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3854
CALIBRATION DATE: 15-Aug-12

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

GHIJ COEFFICIENTS

g = -1.04180580e+001
h = 1.58388002e+000
i = -1.61611232e-003
j = 2.16737512e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.88032568e-006
b = 1.57993505e+000
c = -1.04105757e+001
d = -8.14379973e-005
m = 5.3
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	2.56688	0.00000	0.00000
-1.0000	34.7838	2.80220	4.93060	2.80219	-0.00002
1.0001	34.7841	2.97348	5.03919	2.97350	0.00002
15.0000	34.7857	4.26826	5.79407	4.26825	-0.00000
18.5000	34.7855	4.61472	5.97981	4.61473	0.00001
29.0001	34.7841	5.69765	6.52602	5.69763	-0.00001
32.5001	34.7767	6.06988	6.70340	6.06989	0.00001

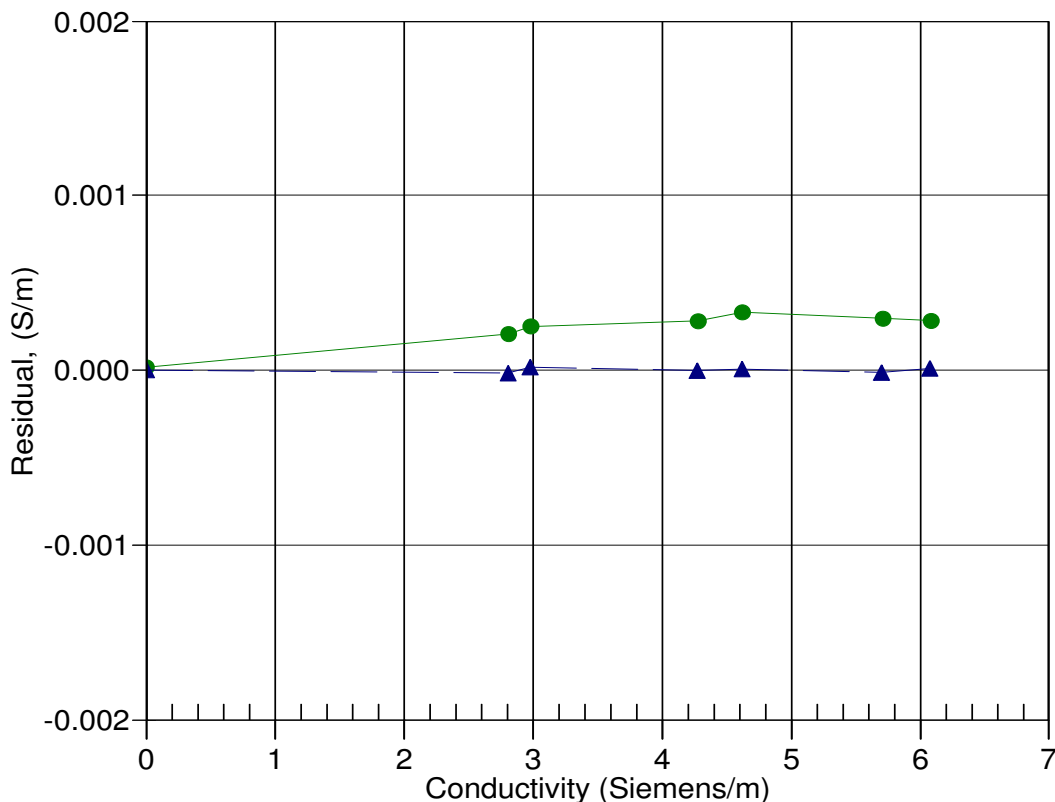
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



11-Mar-11 0.9999408
15-Aug-12 1.0000000