

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2973
CALIBRATION DATE: 15-Aug-12

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

GHIJ COEFFICIENTS

g = -9.95815409e+000
h = 1.34553276e+000
i = 1.99576704e-004
j = 5.89193996e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.46100522e-004
b = 1.34577943e+000
c = -9.95871086e+000
d = -8.56233804e-005
m = 3.7
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	2.71947	0.00000	0.00000
-1.0000	34.7838	2.80220	5.30752	2.80219	-0.00001
1.0001	34.7841	2.97348	5.42571	2.97350	0.00001
15.0000	34.7857	4.26826	6.24670	4.26825	-0.00001
18.5000	34.7855	4.61472	6.44858	4.61473	0.00000
29.0001	34.7841	5.69765	7.04204	5.69765	0.00000
32.5001	34.7767	6.06988	7.23470	6.06987	-0.00000

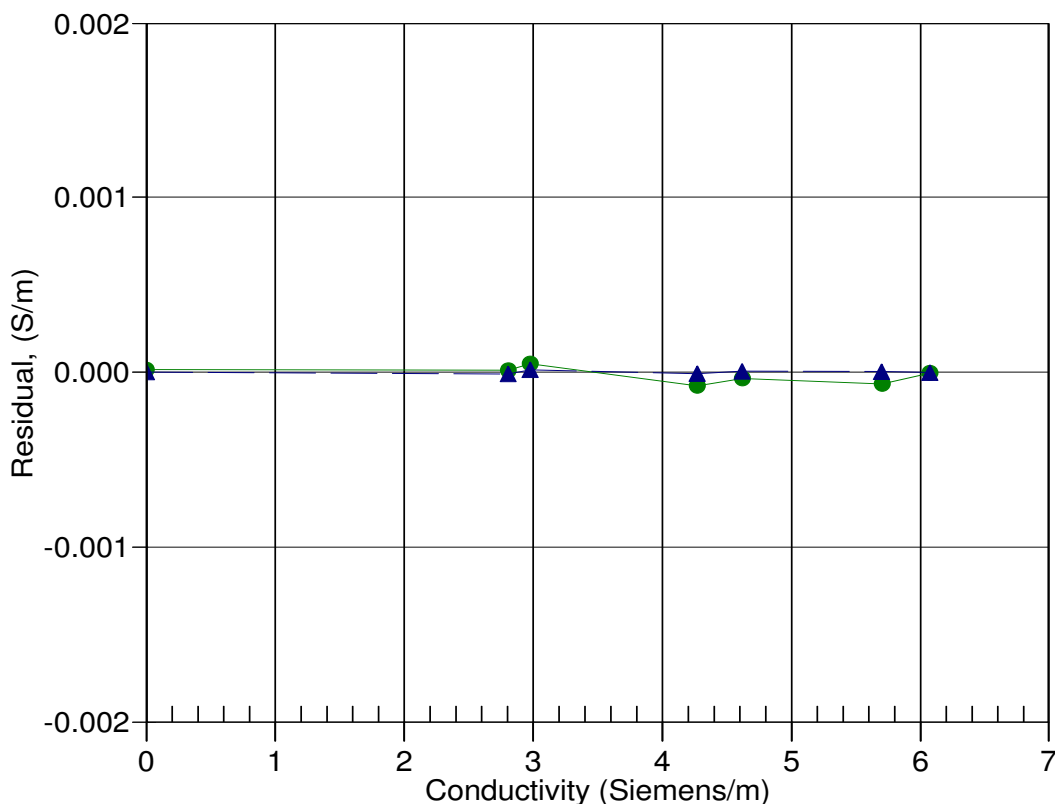
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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

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

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

Date, Slope Correction



26-Aug-10 1.0000059
15-Aug-12 1.0000000