

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4222
CALIBRATION DATE: 10-Oct-13

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

GHIJ COEFFICIENTS

g = -9.93416816e+000
h = 1.39577626e+000
i = -1.91949703e-003
j = 2.01543471e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.86311648e-007
b = 1.39040194e+000
c = -9.92205508e+000
d = -7.97881977e-005
m = 6.4
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	2.67136	0.00000	0.00000
-1.0000	34.7051	2.79645	5.21926	2.79644	-0.00001
1.0000	34.7058	2.96742	5.33567	2.96743	0.00002
15.0000	34.7087	4.25981	6.14421	4.25981	0.00000
18.5000	34.7093	4.60570	6.34302	4.60569	-0.00002
29.0000	34.7083	5.68662	6.92731	5.68664	0.00002
32.5000	34.7030	6.05846	7.11708	6.05845	-0.00001

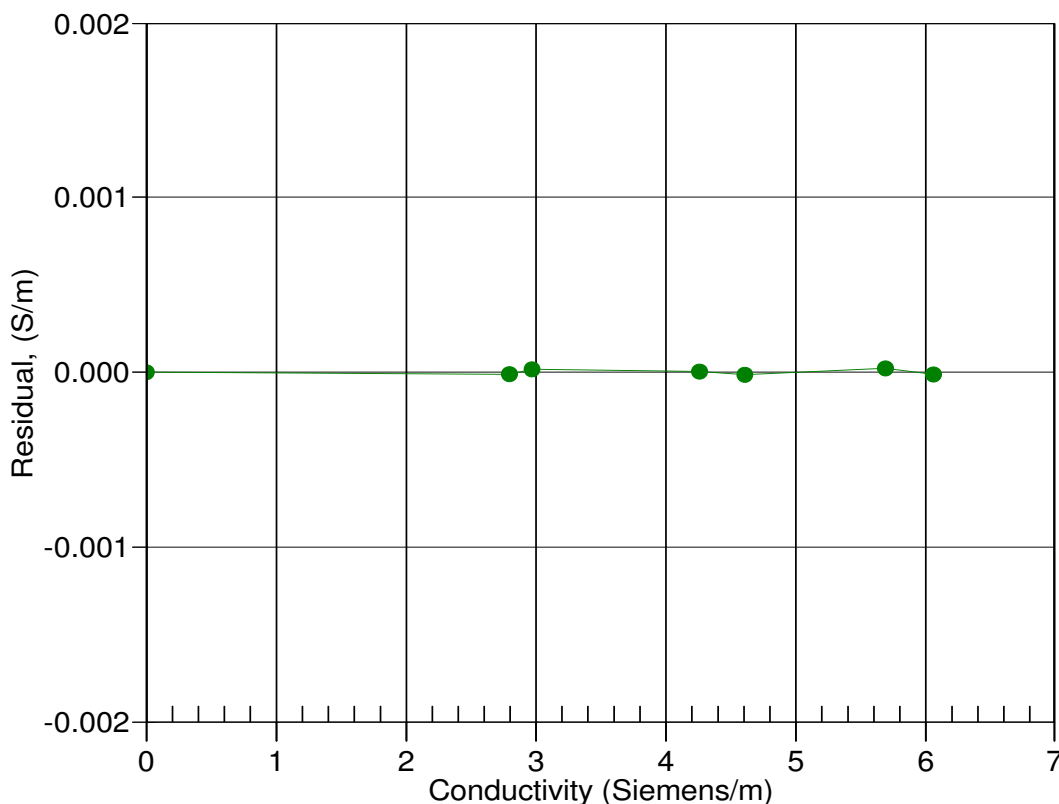
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



10-Oct-13 1.0000000