

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3749
CALIBRATION DATE: 21-Dec-11

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

GHIJ COEFFICIENTS

g = -1.02266863e+001
h = 1.54159697e+000
i = -8.32437714e-004
j = 1.56537559e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.79576551e-005
b = 1.53986657e+000
c = -1.02241472e+001
d = -8.67030599e-005
m = 4.7
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	2.57654	0.00000	0.00000
-1.0000	34.8156	2.80453	4.98300	2.80452	-0.00000
1.0000	34.8159	2.97593	5.09325	2.97594	0.00001
15.0000	34.8170	4.27169	5.85947	4.27165	-0.00004
18.5000	34.8164	4.61838	6.04796	4.61840	0.00002
29.0000	34.8153	5.70217	6.60218	5.70220	0.00003
32.5000	34.8093	6.07491	6.78219	6.07488	-0.00002

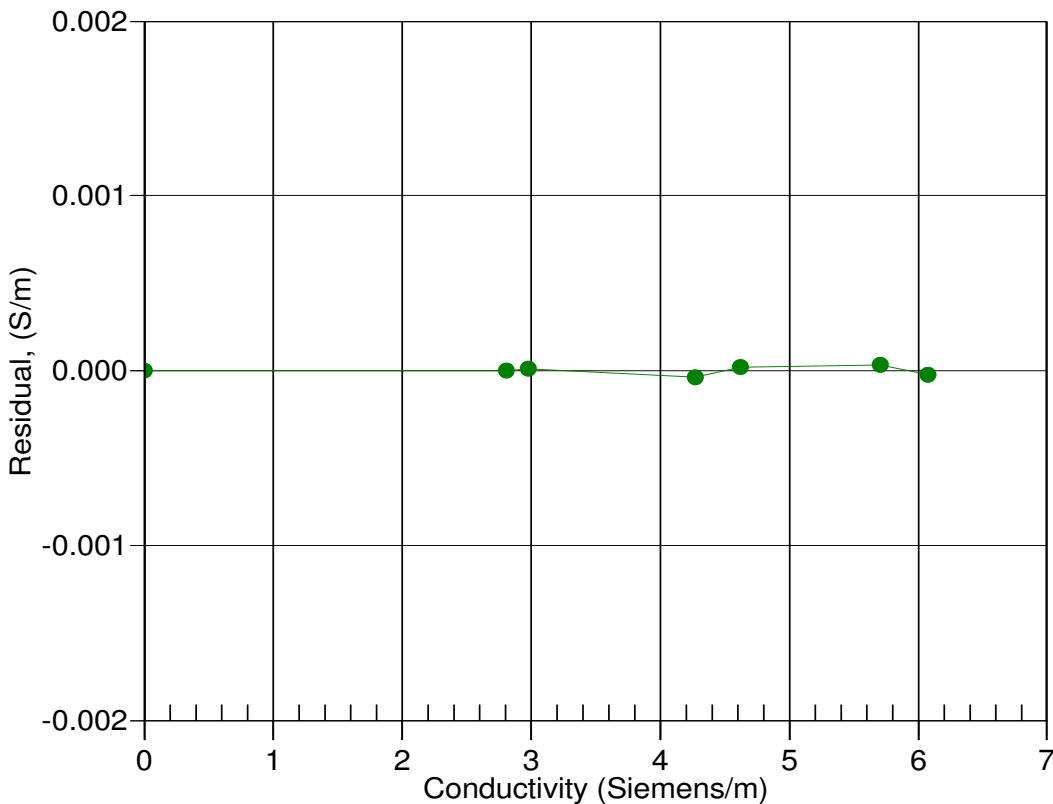
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



21-Dec-11 1.0000000