

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1346
CALIBRATION DATE: 06-Sep-12

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

GHIJ COEFFICIENTS

g = -4.06197809e+000
h = 5.34978458e-001
i = 2.36824449e-005
j = 3.06435606e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.13525781e-005
b = 5.34975852e-001
c = -4.06178168e+000
d = -8.08818438e-005
m = 3.9
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	2.75473	0.00000	0.00000
-1.0000	34.8878	2.80980	7.73876	2.80980	0.00000
1.0000	34.8886	2.98155	7.94199	2.98156	0.00001
15.0000	34.8900	4.27970	9.33397	4.27967	-0.00002
18.5000	34.8902	4.62711	9.67202	4.62710	-0.00001
29.0001	34.8885	5.71282	10.65820	5.71288	0.00006
32.5000	34.8816	6.08609	10.97622	6.08605	-0.00004

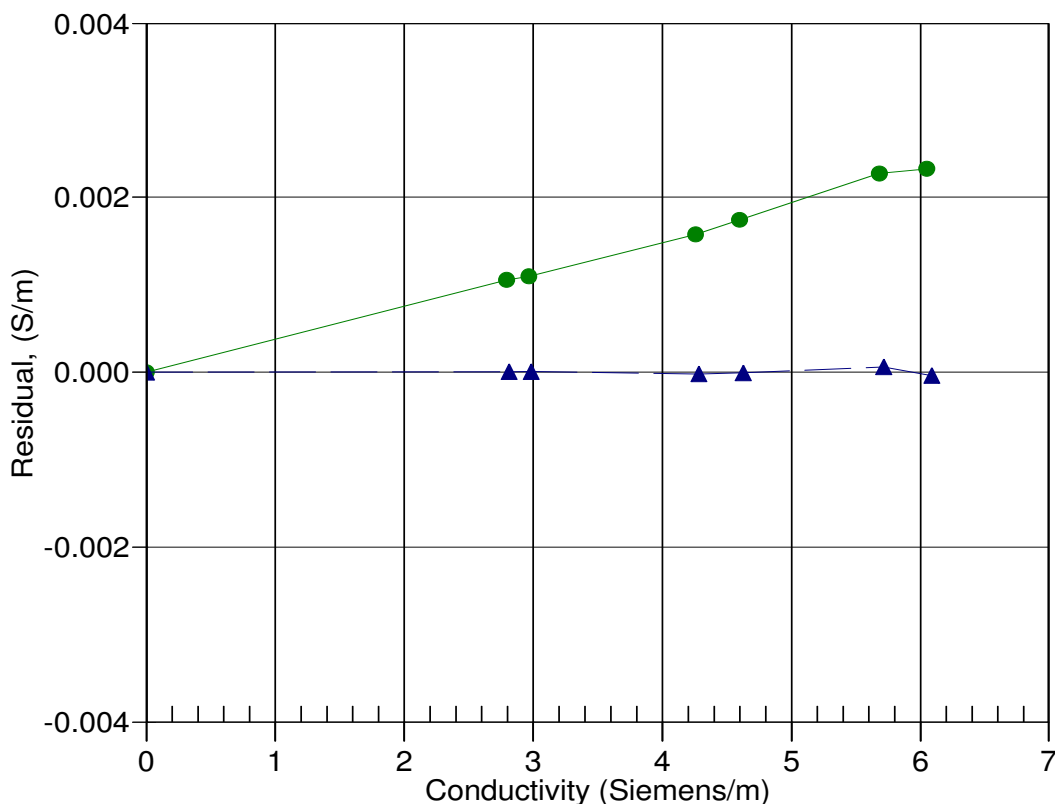
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



03-Jul-12 0.9996166
06-Sep-12 1.0000000