

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3115
CALIBRATION DATE: 28-Jun-12

SBE16 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

g = -4.03742181e+000
h = 4.81508615e-001
i = 1.13806507e-003
j = -1.92135553e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 7.65641020e-003
b = 4.71591973e-001
c = -4.02411582e+000
d = -9.17514527e-005
m = 2.4
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)
22.0000	0.0000	0.00000	2.88633	0.00000	0.00000
1.0000	34.8425	2.97799	8.31052	2.97793	-0.00006
4.5000	34.8223	3.28523	8.67738	3.28528	0.00005
15.0000	34.7797	4.26760	9.75635	4.26764	0.00004
18.5000	34.7710	4.61301	10.10791	4.61302	0.00001
24.0000	34.7618	5.17141	10.65130	5.17137	-0.00004
29.0000	34.7572	5.69373	11.13520	5.69366	-0.00006
32.5000	34.7553	6.06656	11.46802	6.06661	0.00006

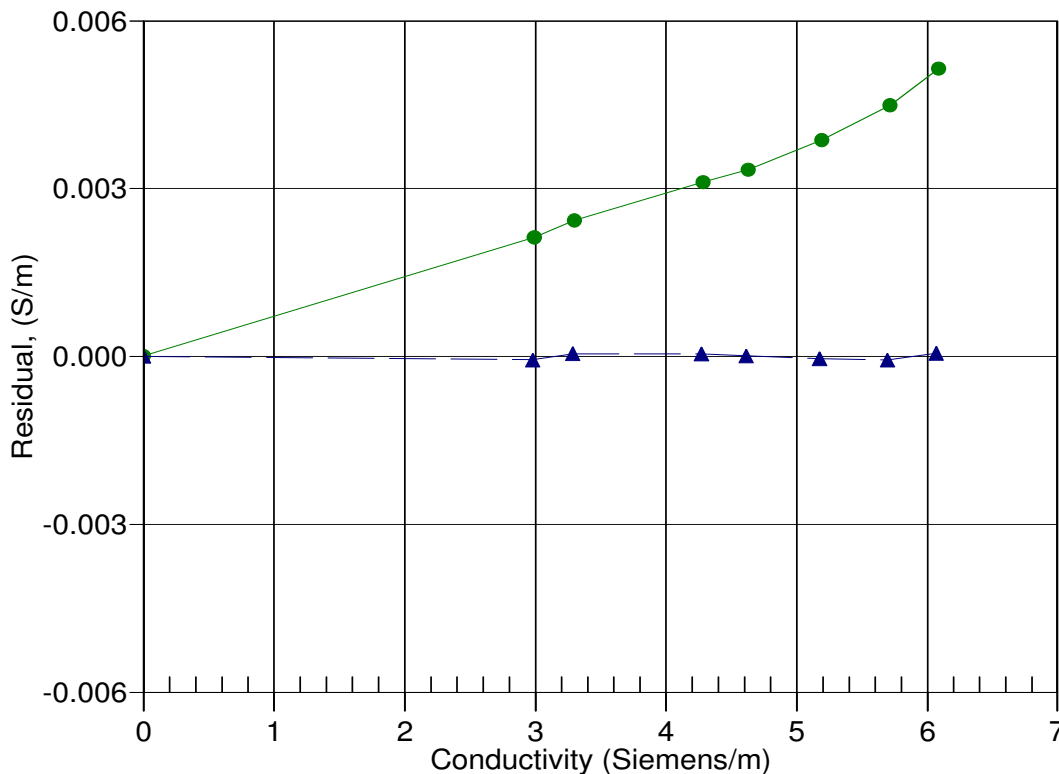
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



18-Aug-11 0.9992316
28-Jun-12 1.0000000