

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3860
CALIBRATION DATE: 23-Mar-12

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

GHIJ COEFFICIENTS

g = -1.03303154e+001
h = 1.48629398e+000
i = -1.55888233e-003
j = 1.96012936e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.12679787e-006
b = 1.48241864e+000
c = -1.03229699e+001
d = -8.63006453e-005
m = 5.6
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	2.63880	0.00000	0.00000
-0.9999	34.8871	2.80976	5.08963	2.80973	-0.00003
1.0001	34.8866	2.98141	5.20202	2.98144	0.00003
15.0001	34.8863	4.27930	5.98325	4.27931	0.00001
18.5000	34.8862	4.62664	6.17544	4.62663	-0.00001
29.0001	34.8842	5.71220	6.74058	5.71218	-0.00001
32.5001	34.8761	6.08525	6.92403	6.08526	0.00001

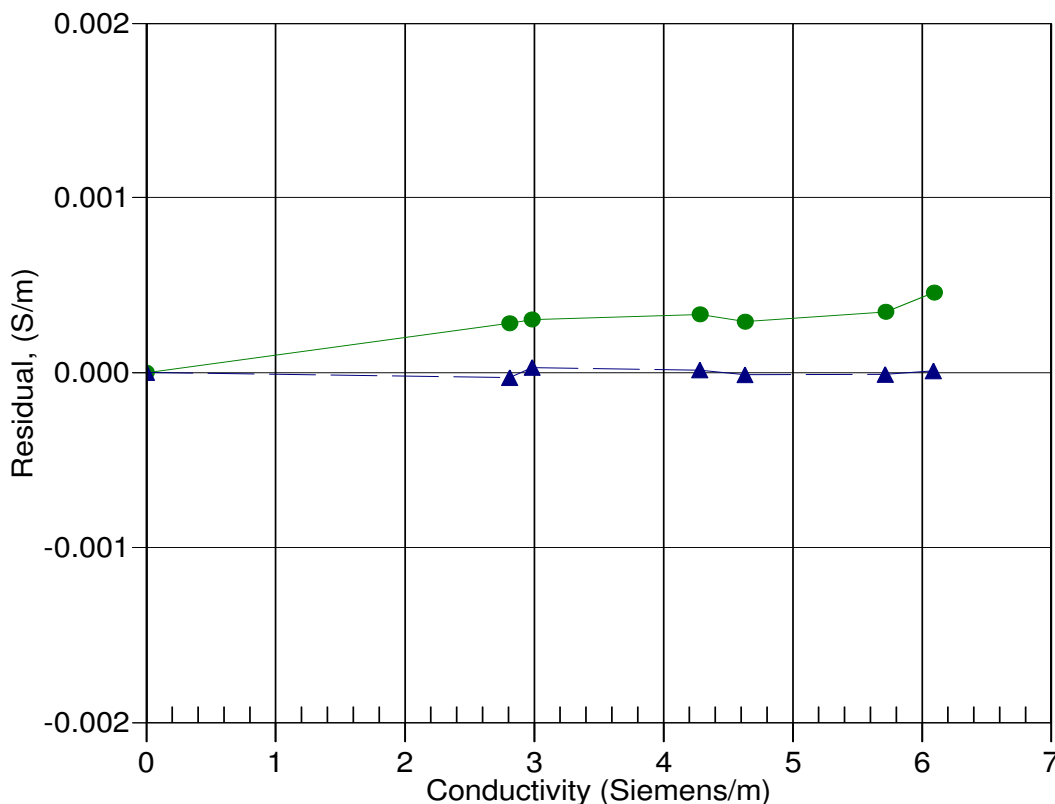
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



25-Jan-12 0.9999269
23-Mar-12 1.0000000