

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1180
CALIBRATION DATE: 26-Mar-13

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

GHIJ COEFFICIENTS

g = -4.22759712e+000
h = 5.65792487e-001
i = 2.42057048e-004
j = 1.76376176e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.21919158e-004
b = 5.66104550e-001
c = -4.22807230e+000
d = -8.09638807e-005
m = 3.5
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	2.73158	0.00000	0.00000
-1.0000	34.9521	2.81449	7.54530	2.81451	0.00002
1.0000	34.9527	2.98651	7.74248	2.98650	-0.00001
15.0000	34.9528	4.28658	9.09409	4.28655	-0.00003
18.5000	34.9524	4.63447	9.42255	4.63447	0.00000
29.0001	34.9509	5.72189	10.38135	5.72195	0.00006
32.5000	34.9457	6.09599	10.69089	6.09595	-0.00004

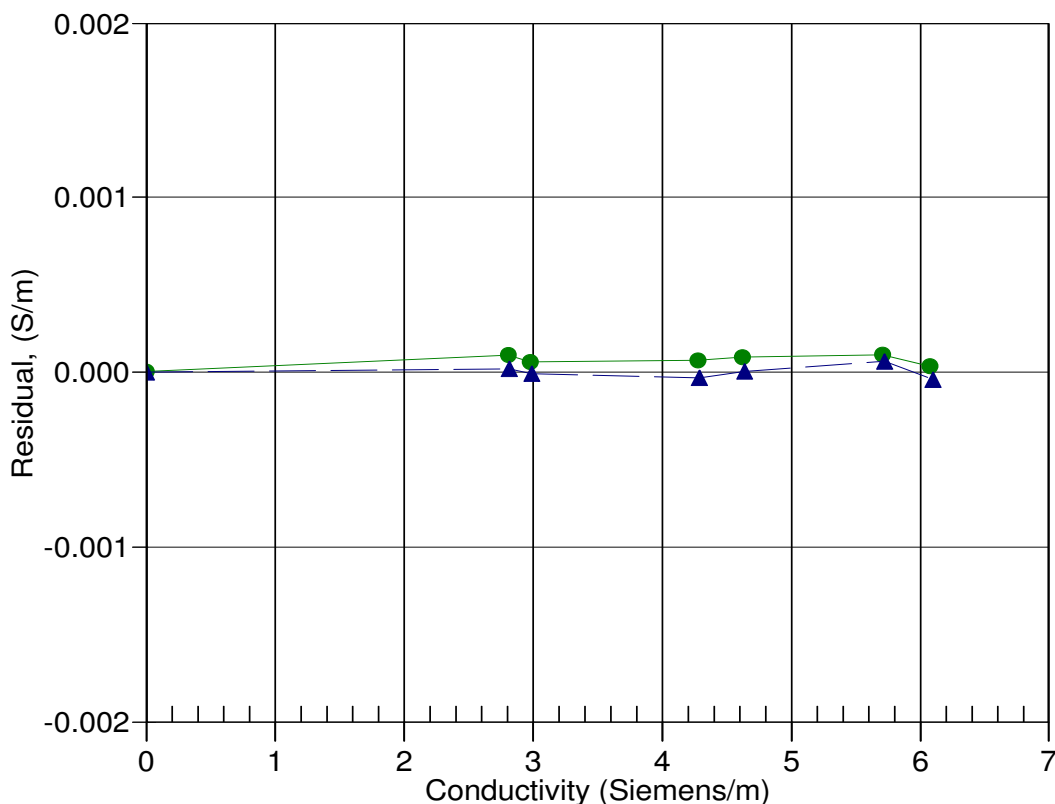
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



28-Sep-11 0.9999849
26-Mar-13 1.0000000