

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3858
CALIBRATION DATE: 25-Jan-12

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

GHIJ COEFFICIENTS

g = -1.02182864e+001
h = 1.52707873e+000
i = -1.13902033e-003
j = 1.75737650e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.87761530e-006
b = 1.52450036e+000
c = -1.02139386e+001
d = -8.64751991e-005
m = 5.0
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	2.58827	0.00000	0.00000
-1.0000	34.9273	2.81268	5.01311	2.81267	-0.00001
1.0000	34.9274	2.98455	5.12413	2.98456	0.00000
15.0000	34.9272	4.28377	5.89567	4.28381	0.00004
18.5000	34.9274	4.63151	6.08544	4.63150	-0.00001
29.0000	34.9268	5.71837	6.64347	5.71833	-0.00004
32.5000	34.9214	6.09224	6.82481	6.09227	0.00003

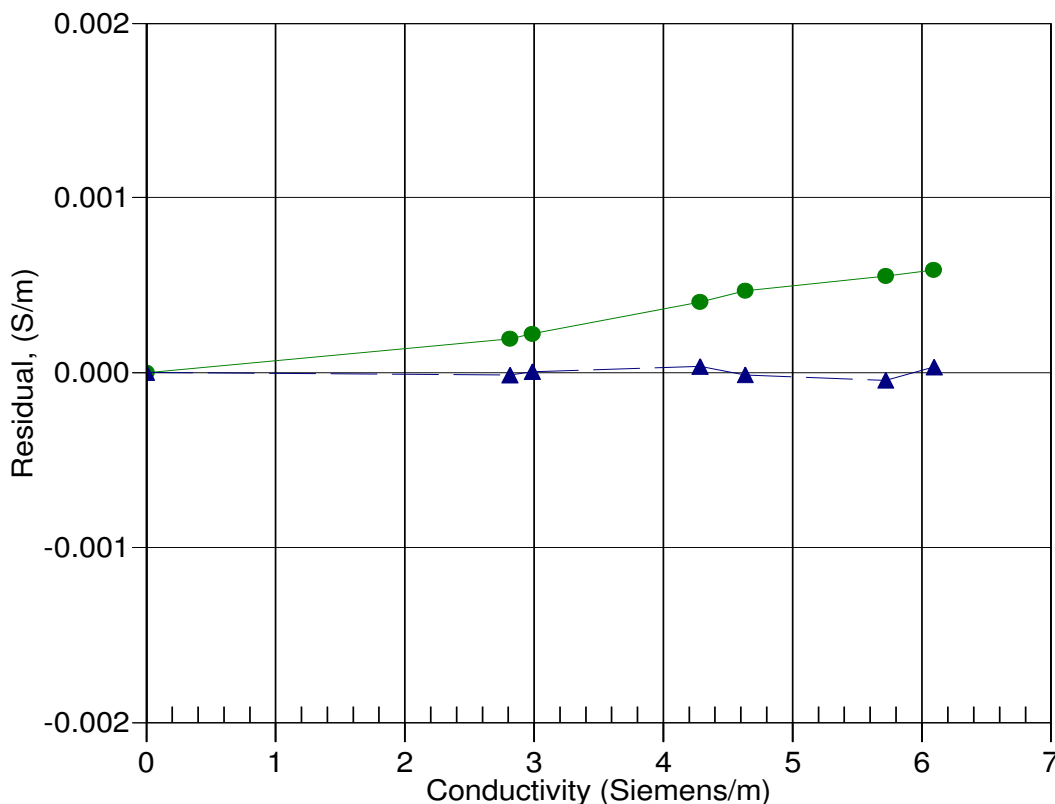
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



24-Feb-11 0.9999065
25-Jan-12 1.0000000