

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1553
CALIBRATION DATE: 16-Jan-14

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

GHIJ COEFFICIENTS

g = -4.17881812e+000
h = 5.25006988e-001
i = 9.98348508e-005
j = 2.30781588e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.83896009e-005
b = 5.25252614e-001
c = -4.17967429e+000
d = -8.67406650e-005
m = 3.8
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	2.82001	0.00000	0.00000
-1.0000	34.7821	2.80208	7.81522	2.80212	0.00005
1.0000	34.7826	2.97336	8.01959	2.97332	-0.00003
15.0000	34.7825	4.26791	9.42072	4.26787	-0.00003
18.5000	34.7822	4.61433	9.76113	4.61432	-0.00001
29.0001	34.7803	5.69710	10.75462	5.69720	0.00011
32.5001	34.7729	6.06929	11.07496	6.06922	-0.00007

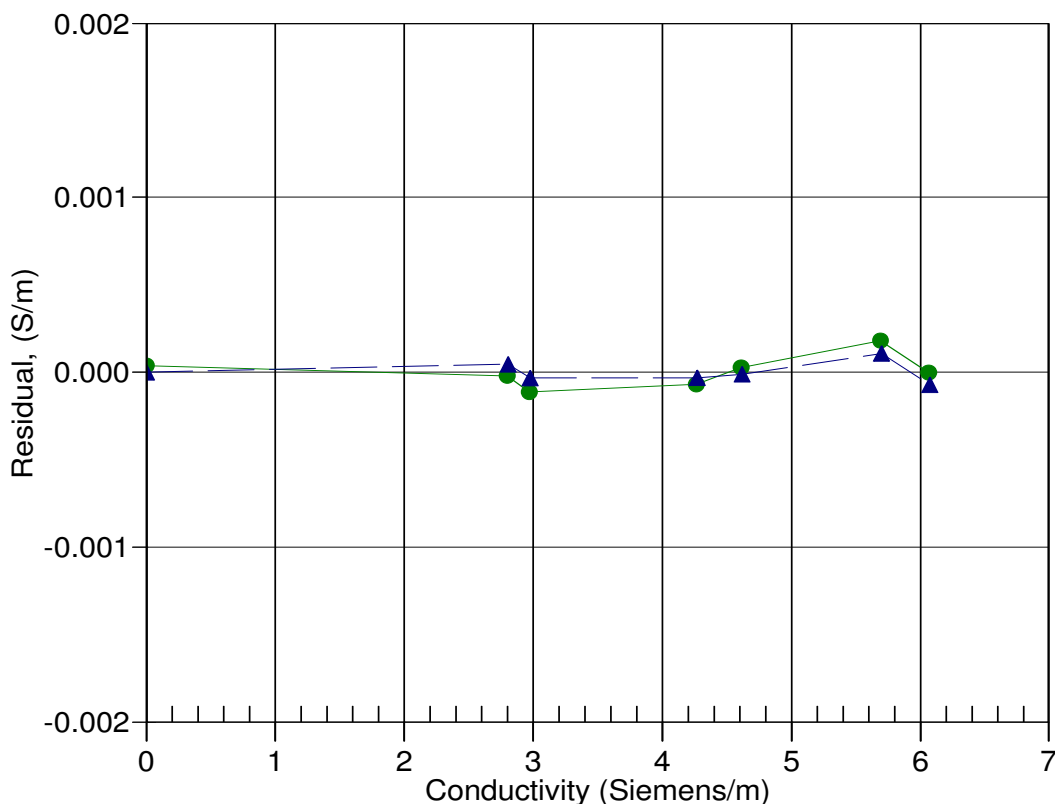
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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-Aug-12 0.9999965
16-Jan-14 1.0000000