

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3157
CALIBRATION DATE: 10-Oct-12

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

GHIJ COEFFICIENTS

g = -1.04049688e+001
h = 1.47603170e+000
i = -6.28990022e-004
j = 1.20734850e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.17889327e-005
b = 1.47458245e+000
c = -1.04022452e+001
d = -8.23524700e-005
m = 4.5
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	2.65578	0.00000	0.00000
-1.0000	34.6810	2.79469	5.09747	2.79468	-0.00001
1.0000	34.6810	2.96550	5.20966	2.96552	0.00002
15.0000	34.6822	4.25690	5.98975	4.25690	0.00000
18.5000	34.6825	4.60253	6.18173	4.60248	-0.00005
29.0000	34.6798	5.68247	6.74635	5.68257	0.00010
32.5001	34.6735	6.05391	6.92973	6.05385	-0.00006

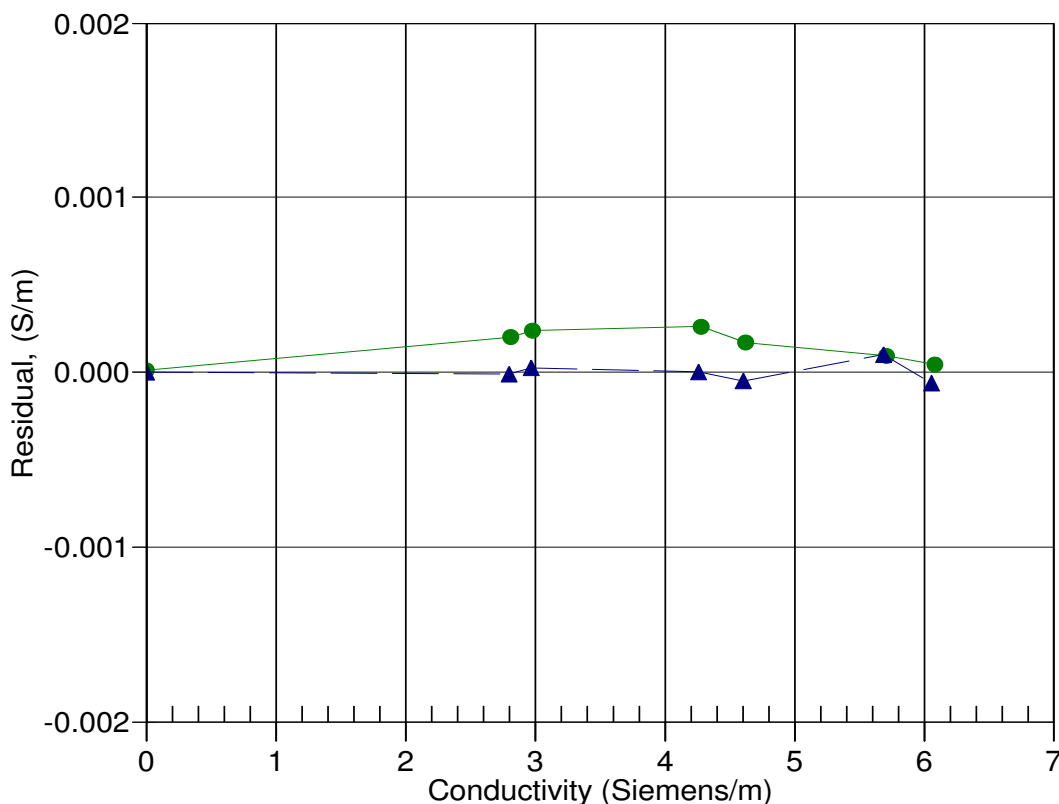
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



04-Jan-12 0.9999686
10-Oct-12 1.0000000