

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2208
CALIBRATION DATE: 15-Jan-13

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

GHIJ COEFFICIENTS

g = -1.03350832e+001
h = 1.63838318e+000
i = -3.58754605e-003
j = 3.61461399e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.71513610e-008
b = 1.62832798e+000
c = -1.03134940e+001
d = -7.21186564e-005
m = 7.8
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	2.51678	0.00000	0.00000
-0.9999	34.7799	2.80193	4.85155	2.80191	-0.00001
1.0001	34.7798	2.97315	4.95870	2.97316	0.00001
15.0001	34.7786	4.26749	5.70344	4.26751	0.00002
18.5001	34.7783	4.61388	5.88665	4.61386	-0.00002
29.0001	34.7748	5.69630	6.42526	5.69629	-0.00001
32.5001	34.7656	6.06816	6.60003	6.06816	0.00001

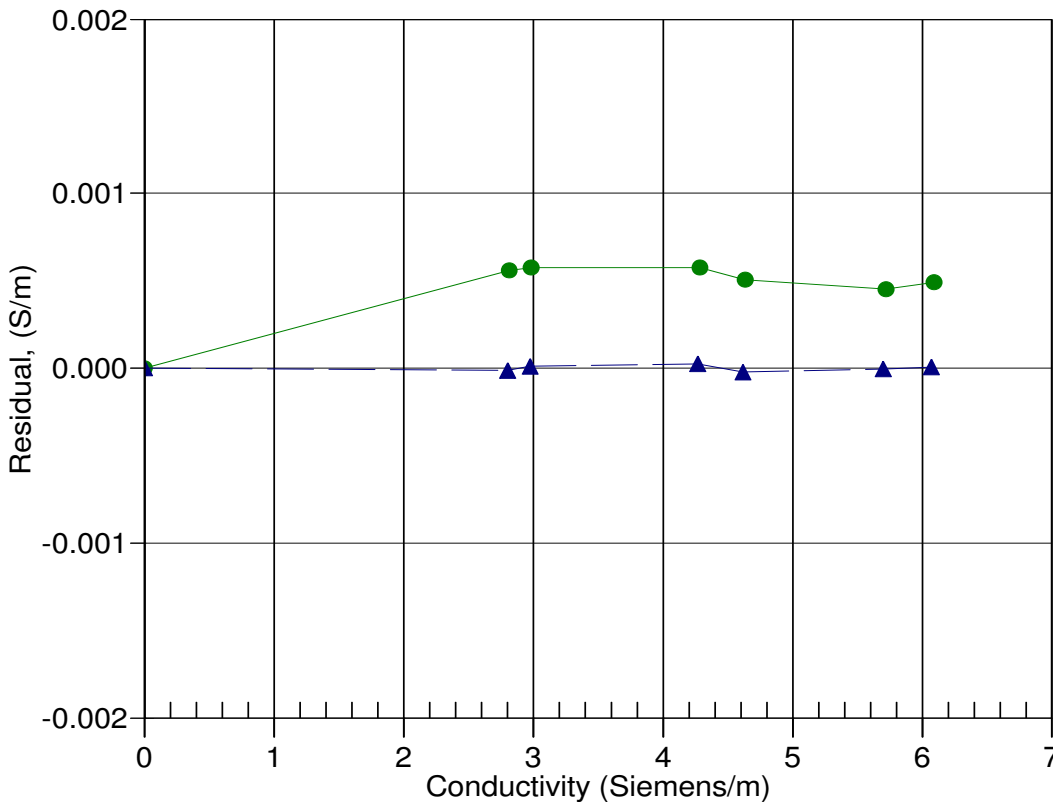
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



17-Jan-12 0.9998922
15-Jan-13 1.0000000