

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1538
CALIBRATION DATE: 19-Feb-14

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

GHIJ COEFFICIENTS

g = -3.88357561e+000
h = 4.34545234e-001
i = -1.02637561e-004
j = 2.56345146e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.16203760e-005
b = 4.34224172e-001
c = -3.88253457e+000
d = -8.39883227e-005
m = 4.2
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	2.98976	0.00000	0.00000
-1.0000	34.8077	2.80395	8.56122	2.80396	0.00001
1.0000	34.8079	2.97532	8.78723	2.97531	-0.00000
15.0000	34.8071	4.27060	10.33473	4.27058	-0.00003
18.5000	34.8055	4.61709	10.71023	4.61711	0.00002
29.0001	34.8036	5.70048	11.80573	5.70050	0.00002
32.5001	34.7970	6.07302	12.15905	6.07300	-0.00001

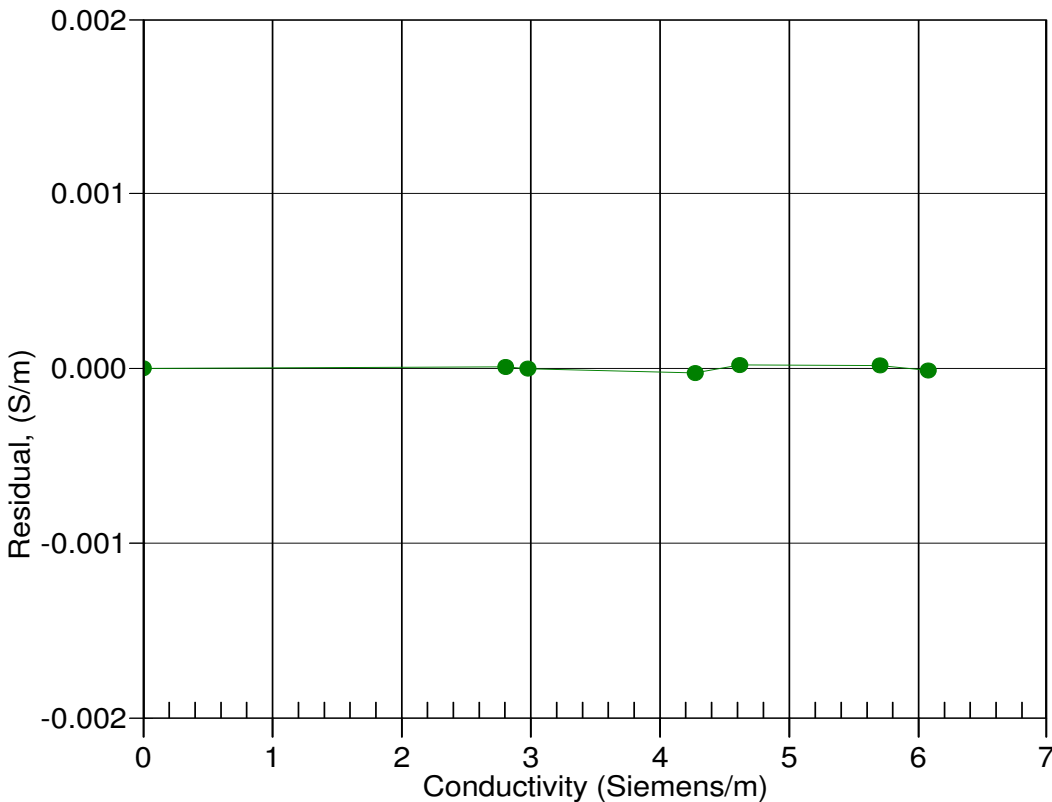
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



19-Feb-14 1.0000000