

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1347
CALIBRATION DATE: 27-Jun-13

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

GHIJ COEFFICIENTS

g = -3.93050000e+000
h = 5.16770645e-001
i = -4.32748676e-005
j = 3.32176452e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.05203270e-005
b = 5.16584655e-001
c = -3.92970149e+000
d = -7.85840426e-005
m = 4.0
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	2.75752	0.00000	0.00000
-1.0000	34.5637	2.78612	7.83065	2.78616	0.00004
1.0000	34.5649	2.95652	8.03692	2.95648	-0.00004
15.0000	34.5654	4.24408	9.44957	4.24405	-0.00003
18.5000	34.5652	4.58864	9.79252	4.58865	0.00001
29.0001	34.5647	5.66574	10.79295	5.66579	0.00005
32.5001	34.5602	6.03637	11.11578	6.03633	-0.00004

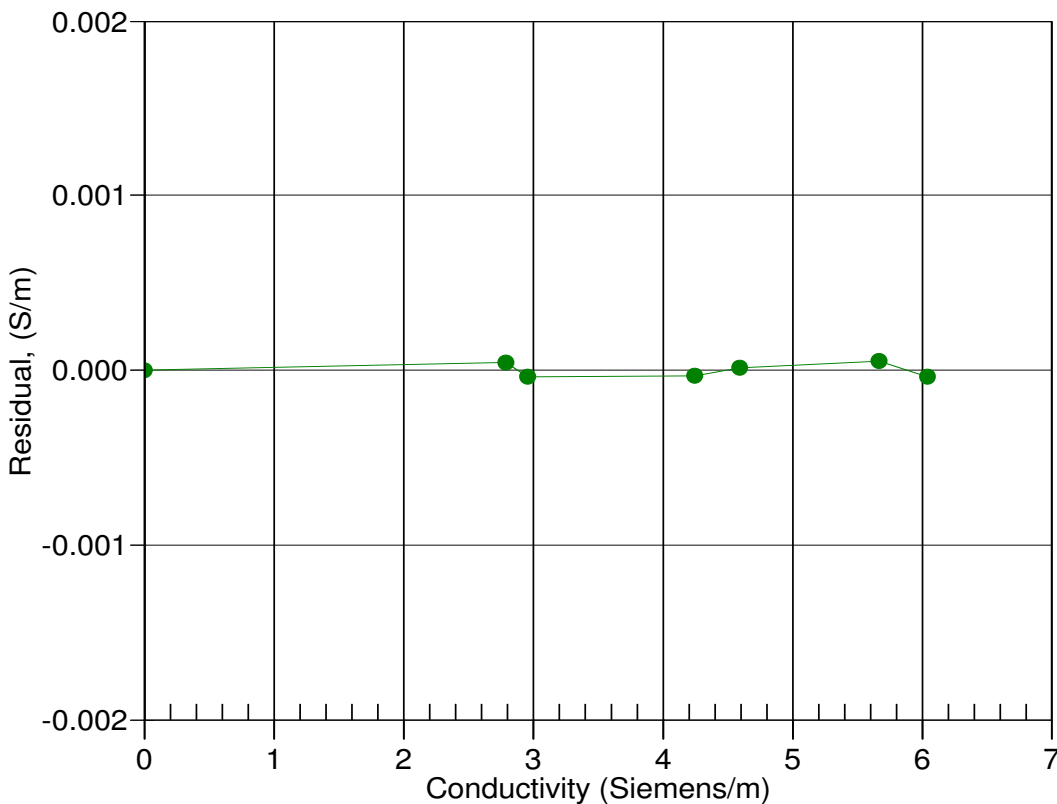
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



27-Jun-13 1.0000000