

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0354
CALIBRATION DATE: 05-Apr-13

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

GHIJ COEFFICIENTS

g = -3.92624066e+000
h = 4.55339827e-001
i = 3.83640973e-005
j = 2.10520038e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.99095823e-005
b = 4.55449455e-001
c = -3.92673730e+000
d = -8.64393473e-005
m = 3.9
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	2.93549	0.00000	0.00000
-1.0000	34.8455	2.80671	8.36585	2.80675	0.00004
1.0000	34.8466	2.97831	8.58638	2.97828	-0.00003
15.0000	34.8467	4.27495	10.09674	4.27491	-0.00003
18.5000	34.8464	4.62193	10.46343	4.62194	0.00001
29.0001	34.8454	5.70656	11.53315	5.70661	0.00005
32.5000	34.8423	6.08001	11.87860	6.07997	-0.00004

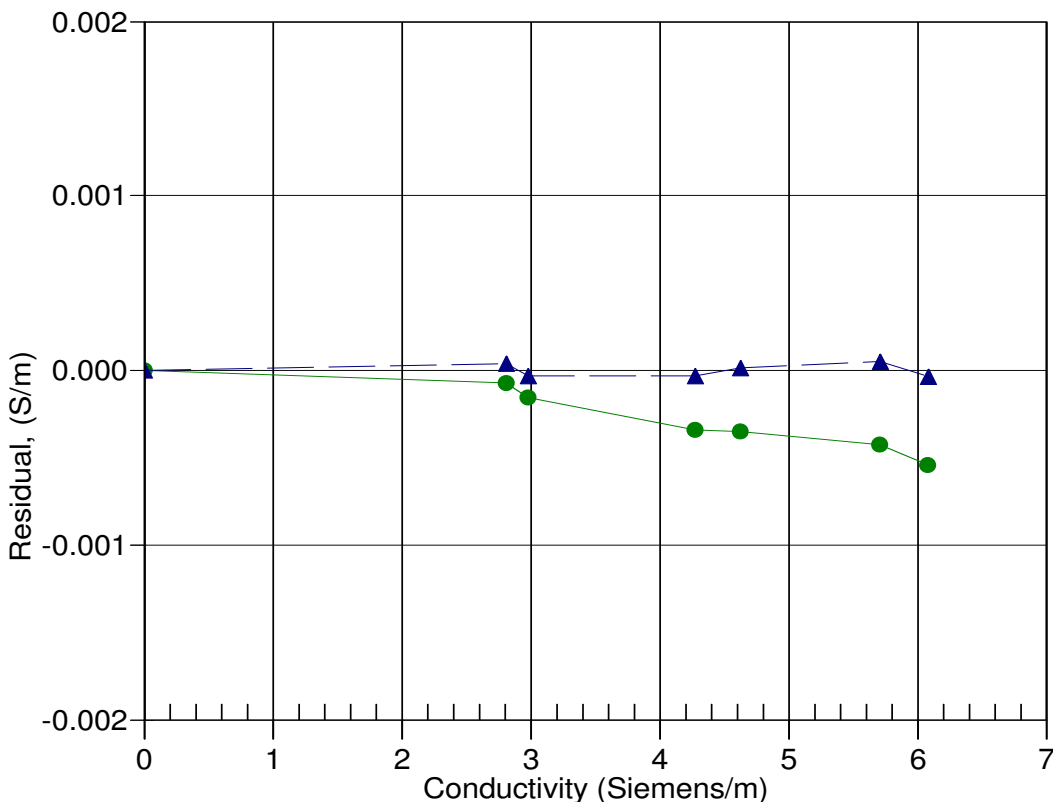
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



28-Sep-11 1.0000752
05-Apr-13 1.0000000