

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1180
CALIBRATION DATE: 05-Apr-13

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

GHIJ COEFFICIENTS

g = -4.21832213e+000
h = 5.63526926e-001
i = 6.73304378e-004
j = -4.83407884e-006
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.59421918e-003
b = 5.61728411e-001
c = -4.21552353e+000
d = -8.65353050e-005
m = 2.7
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	2.73161	0.00000	0.00000
-1.0000	34.8455	2.80671	7.53712	2.80674	0.00003
1.0000	34.8466	2.97831	7.73398	2.97828	-0.00003
15.0000	34.8467	4.27495	9.08364	4.27494	-0.00001
18.5000	34.8464	4.62193	9.41169	4.62195	0.00002
29.0001	34.8454	5.70656	10.36953	5.70655	-0.00000

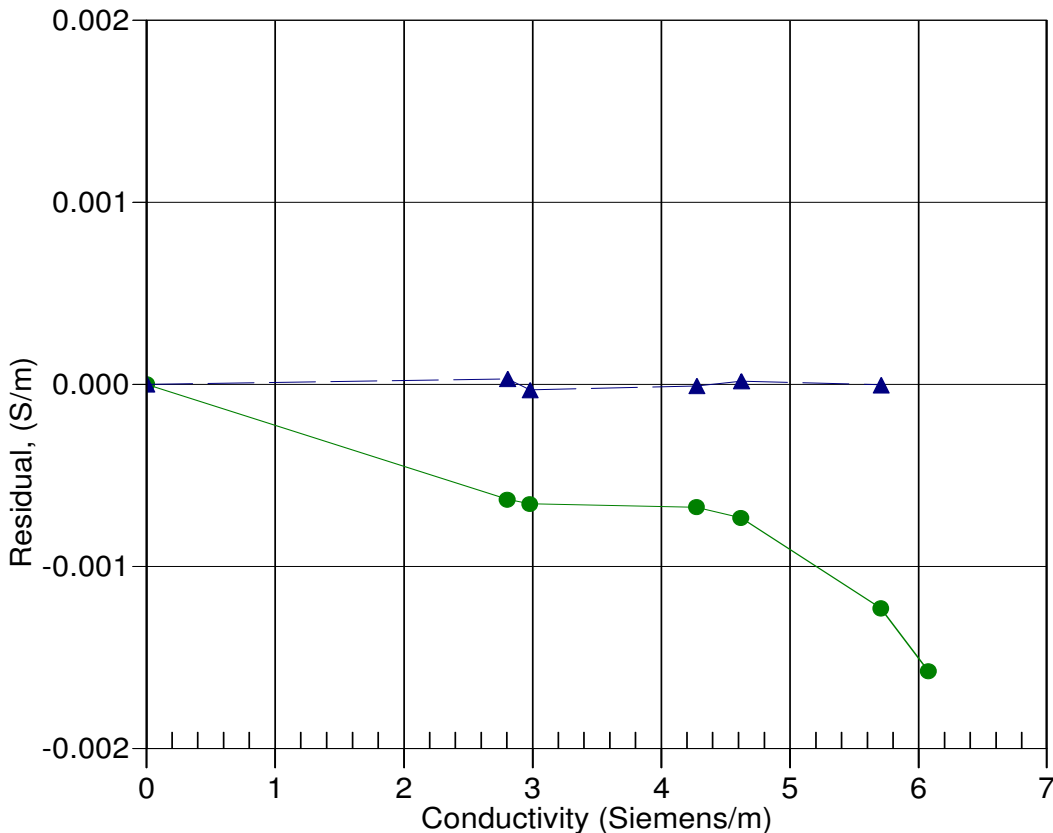
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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 1.0002115
05-Apr-13 1.0000000