

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3318
CALIBRATION DATE: 24-Sep-11

SBE21 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -3.99589034e+000
h = 4.72848859e-001
i = -5.68395556e-004
j = 5.28553280e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.65440910e-006
b = 4.70687372e-001
c = -3.98578775e+000
d = -9.28864102e-005
m = 5.0
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)
22.0000	0.0000	0.00000	2.91072	0.00000	0.00000
1.0000	35.0219	2.99186	8.47816	2.99187	0.00001
4.5000	35.0022	3.30053	8.85436	3.30051	-0.00001
15.0000	34.9570	4.28704	9.96025	4.28703	-0.00002
18.5000	34.9470	4.63383	10.32028	4.63384	0.00001
24.0000	34.9352	5.19435	10.87630	5.19435	-0.00000
29.0000	34.9252	5.71814	11.37060	5.71816	0.00002
32.5000	34.9134	6.09100	11.70929	6.09099	-0.00001

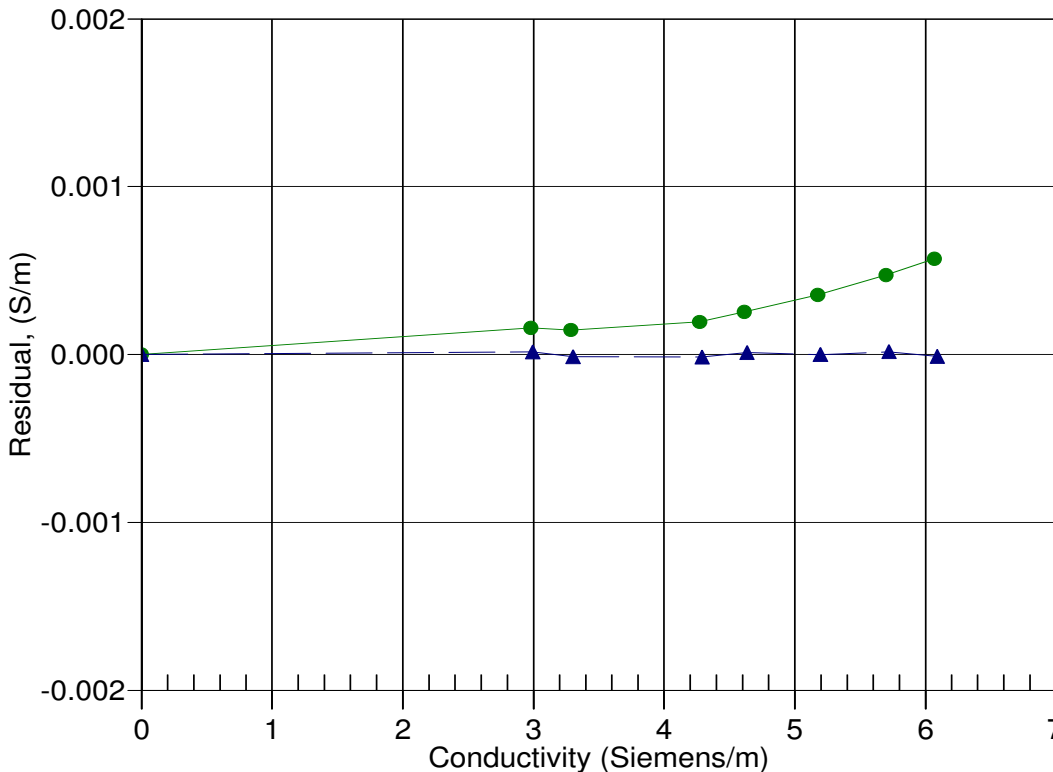
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



08-Dec-10 0.9999297
24-Sep-11 1.0000000