

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0262
CALIBRATION DATE: 13-Jan-12

SBE16 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

g = -4.00898394e+000
h = 4.77185242e-001
i = 1.55593373e-003
j = -4.35892341e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.66854465e-002
b = 4.16862552e-001
c = -3.99570084e+000
d = -1.49445953e-004
m = 2.1
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	2.88605	0.00000	0.00000
1.0000	34.7921	2.97409	8.32376	2.97408	-0.00002
4.5000	34.7718	3.28094	8.69132	3.28094	0.00000
14.9999	34.7278	4.26189	9.77288	4.26192	0.00002
18.5000	34.7175	4.60667	10.12529	4.60670	0.00002
24.0000	34.7060	5.16403	10.67009	5.16400	-0.00003
29.0000	34.6982	5.68515	11.15523	5.68511	-0.00004
32.5000	34.6915	6.05668	11.48859	6.05672	0.00004

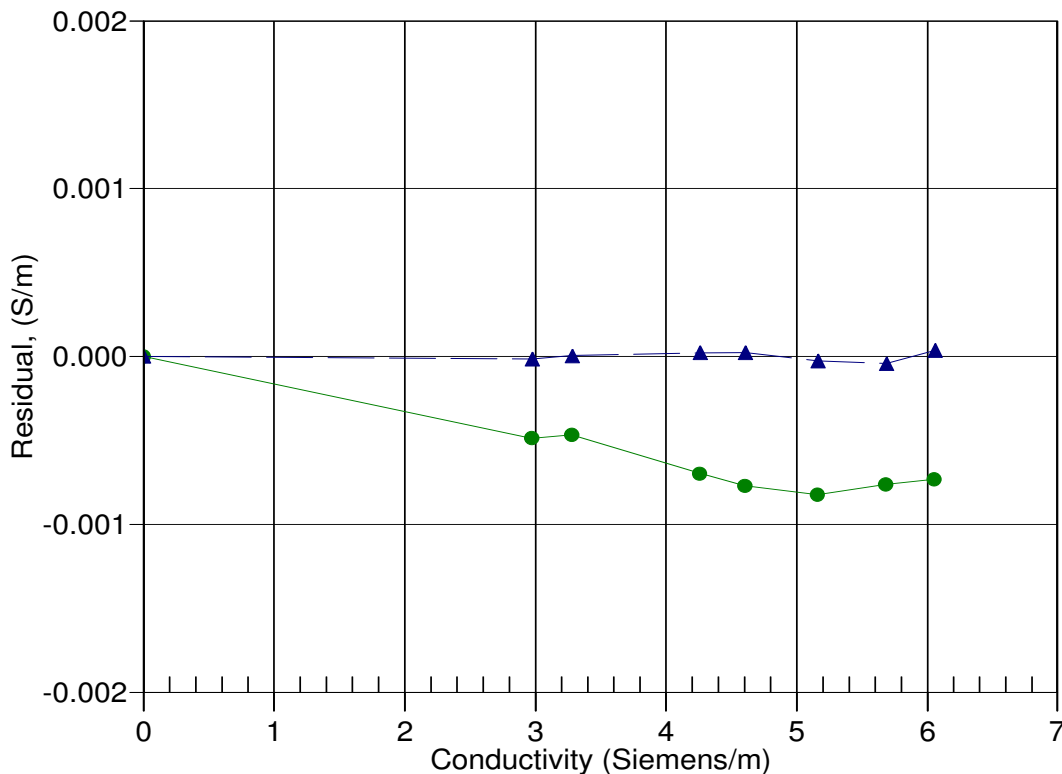
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



12-Dec-09 1.0001458
13-Jan-12 1.0000000