

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3626
CALIBRATION DATE: 02-Jun-09

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

GHIJ COEFFICIENTS

g = -1.01481885e+001
h = 1.45352231e+000
i = -2.77241311e-003
j = 2.80775237e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.64741580e-008
b = 1.44568097e+000
c = -1.01307208e+001
d = -8.07594711e-005
m = 7.1
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)
0.0000	0.0000	0.00000	2.64720	0.00000	0.00000
-1.0000	34.8722	2.80866	5.14092	2.80866	0.00000
1.0000	34.8730	2.98035	5.25506	2.98034	-0.00001
15.0000	34.8746	4.27801	6.04805	4.27803	0.00002
18.5000	34.8746	4.62527	6.24302	4.62525	-0.00002
29.0000	34.8714	5.71033	6.81606	5.71032	-0.00001
32.5000	34.8642	6.08340	7.00211	6.08340	0.00001

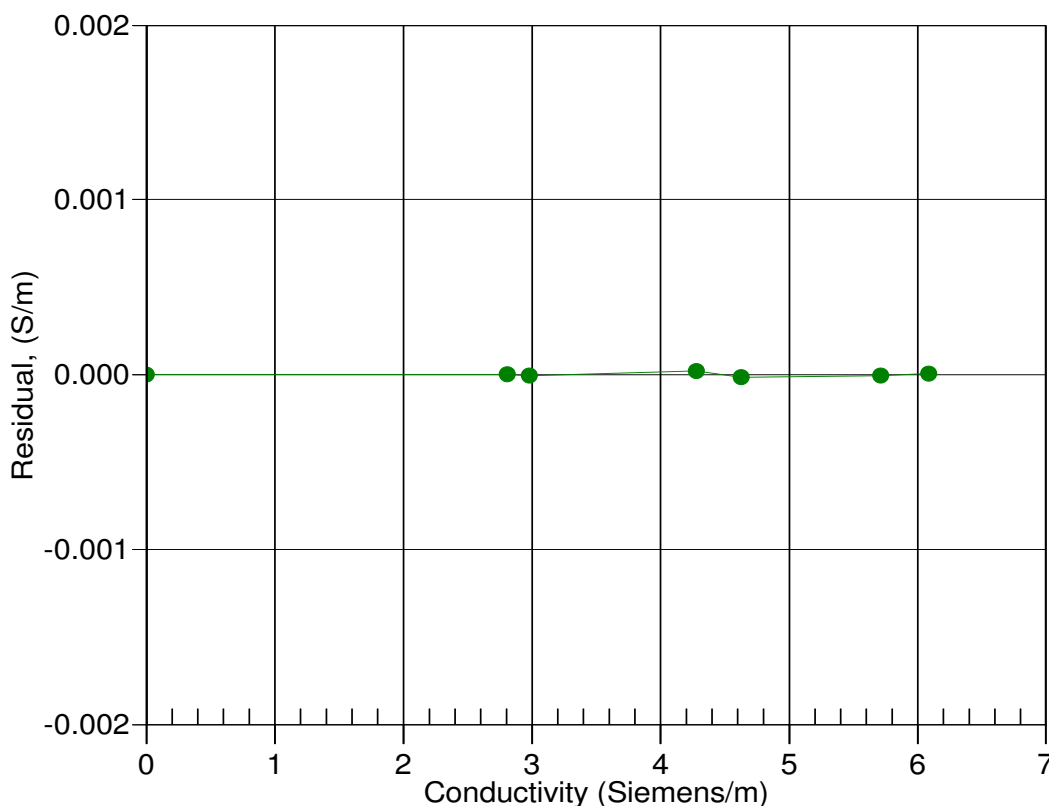
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



02-Jun-09 1.0000000