

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1387
CALIBRATION DATE: 08-Jun-10

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

GHIJ COEFFICIENTS

g = -1.06579115e+001
h = 1.59636609e+000
i = -1.02274700e-003
j = 1.62757999e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.43792796e-006
b = 1.59432686e+000
c = -1.06554856e+001
d = -1.31276966e-004
m = 5.2
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	2.58513	0.00000	0.00000
0.9999	34.8102	2.97548	5.03306	2.97548	-0.00001
15.0000	34.8103	4.27095	5.78289	4.27095	-0.00000
18.4999	34.8096	4.61757	5.96747	4.61760	0.00004
28.9999	34.8091	5.70126	6.51052	5.70119	-0.00008
32.4999	34.8040	6.07408	6.68714	6.07412	0.00005

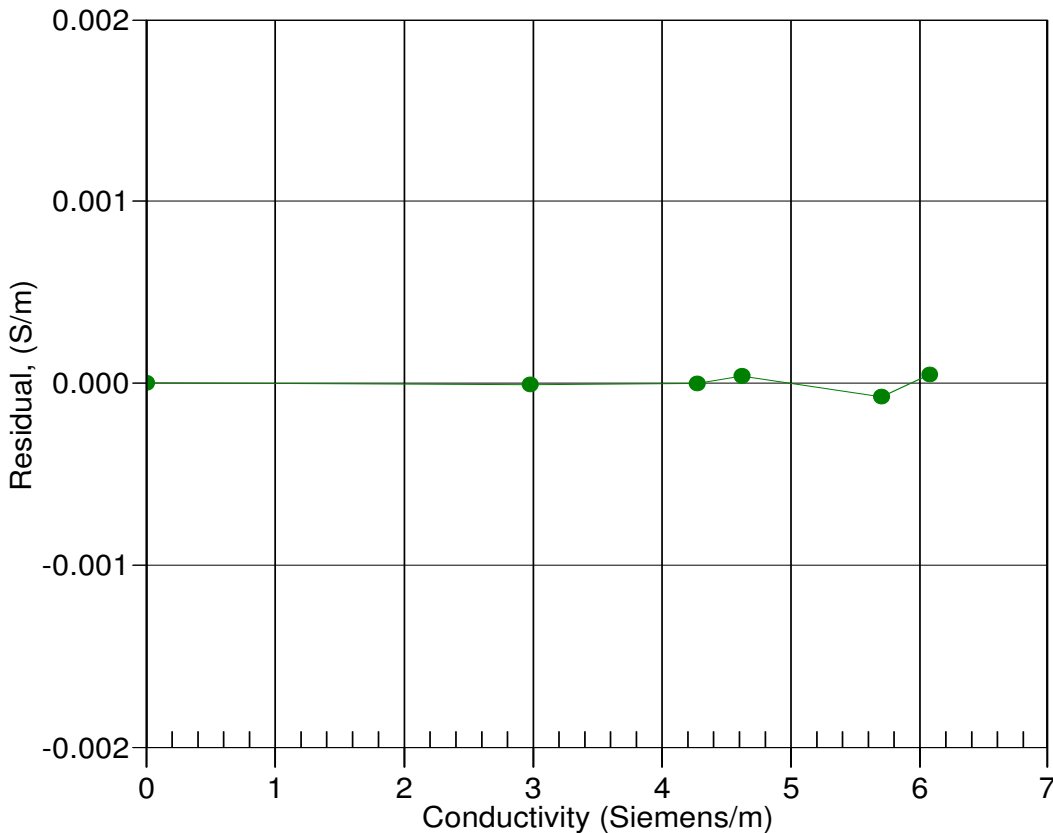
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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-Jun-10 1.0000000