

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2768
CALIBRATION DATE: 20-Apr-11

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

GHIJ COEFFICIENTS

g = -1.06439848e+001
h = 1.51826761e+000
i = -3.92002816e-004
j = 1.20094176e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.38365606e-005
b = 1.51739487e+000
c = -1.06424367e+001
d = -8.41194038e-005
m = 4.2
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	2.64793	0.00000	0.00000
-1.0000	34.9416	2.81373	5.05218	2.81368	-0.00004
0.9999	34.9412	2.98561	5.16283	2.98565	0.00004
14.9999	34.9411	4.28529	5.93237	4.28533	0.00004
18.5000	34.9409	4.63311	6.12178	4.63308	-0.00003
29.0000	34.9390	5.72015	6.67899	5.72011	-0.00004
32.5000	34.9313	6.09377	6.86000	6.09380	0.00003

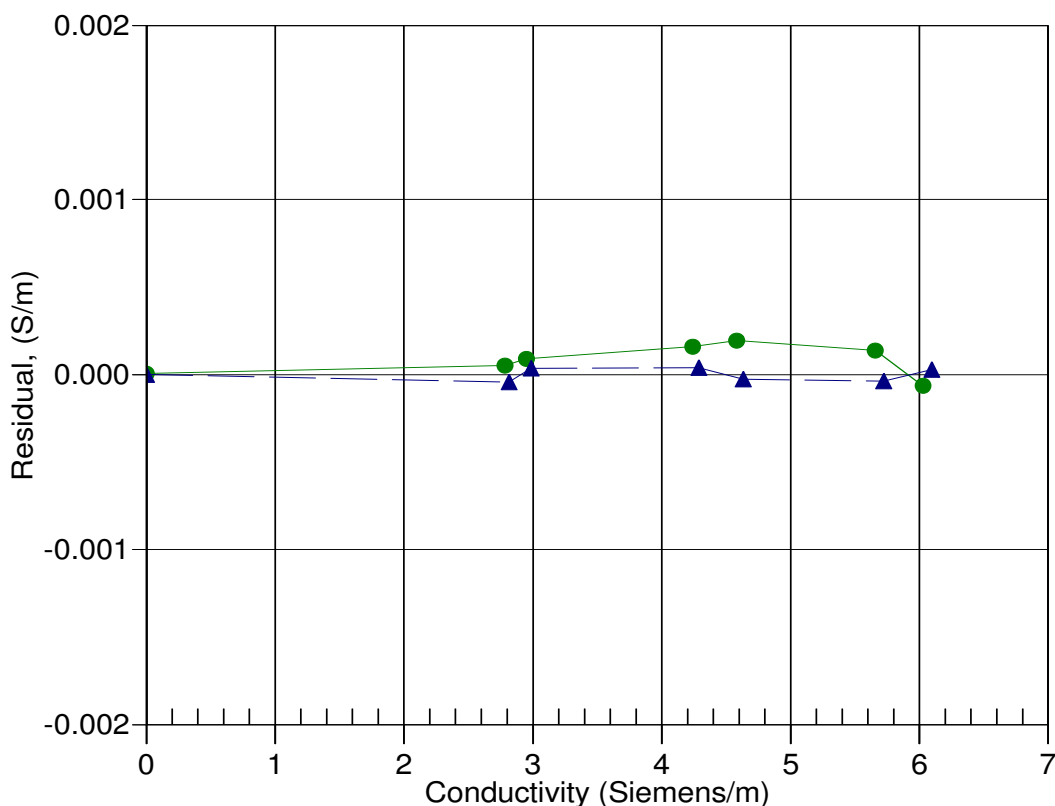
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



21-Apr-10 0.9999809
20-Apr-11 1.0000000