

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357
CALIBRATION DATE: 14-Nov-86

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

GHIJ COEFFICIENTS

g = -4.32913793e+000
h = 5.06243944e-001
i = -2.69137334e-004
j = 3.97082814e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.61781568e-008
b = 5.06375158e-001
c = -4.33411061e+000
d = 1.32330186e-003
m = 6.4
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	2.92558	0.00000	0.00000
-1.0594	34.3776	2.76753	7.94820	2.76757	0.00004
7.0033	34.3774	3.47224	8.77694	3.47221	-0.00003
15.0205	34.3784	4.22552	9.58272	4.22544	-0.00008
23.0095	34.3796	5.01972	10.36360	5.01983	0.00011
30.9959	34.3681	5.84716	11.11735	5.84712	-0.00004

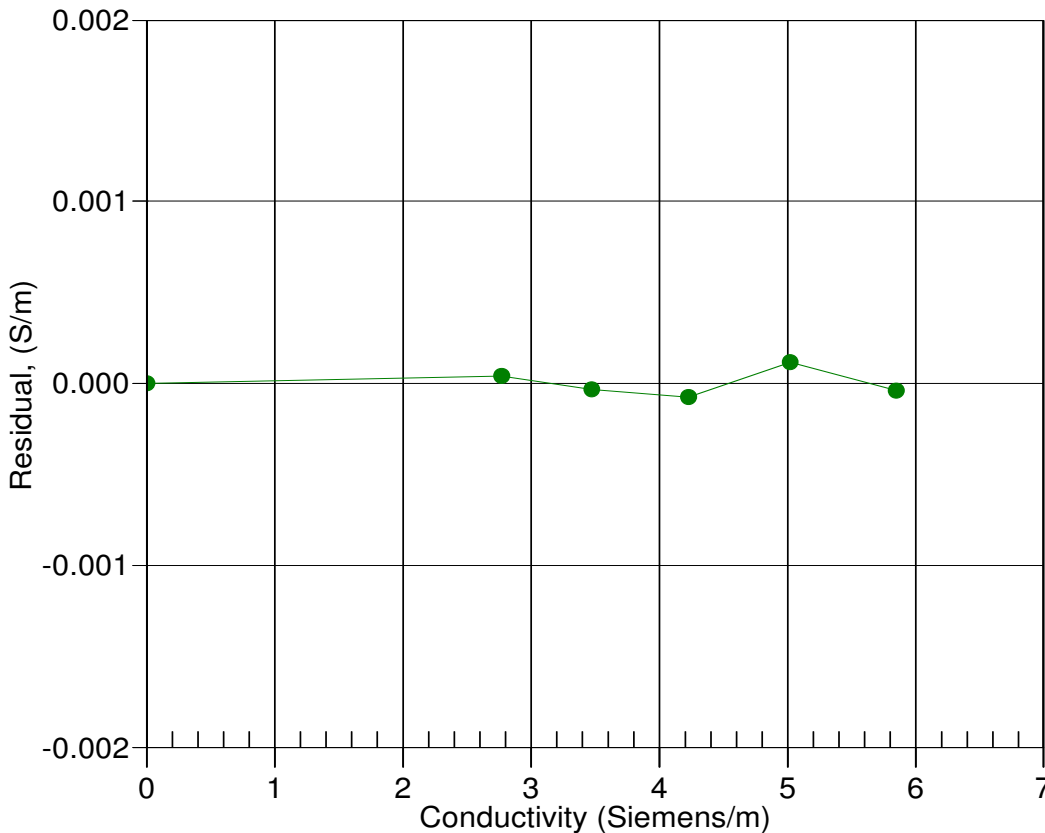
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



14-Nov-86 1.0000000