

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3181

CALIBRATION DATE: 08-Mar-06

SBE4 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -1.02595838e+001

h = 1.40138988e+000

i = -1.82063037e-003

j = 2.05292980e-004

CPcor = -9.5700e-008 (nominal)

CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 7.93790896e-007

b = 1.39652403e+000

c = -1.02492845e+001

d = -8.52592673e-005

m = 6.0

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	2.70905	0.00000	0.00000
-1.4000	34.9263	2.77870	5.21774	2.77867	-0.00002
1.0000	34.9263	2.98447	5.35694	2.98448	0.00001
15.0000	34.9268	4.28373	6.16306	4.28377	0.00004
18.5000	34.9270	4.63146	6.36133	4.63144	-0.00002
29.0000	34.9258	5.71823	6.94427	5.71818	-0.00005
32.5000	34.9199	6.09201	7.13367	6.09204	0.00004

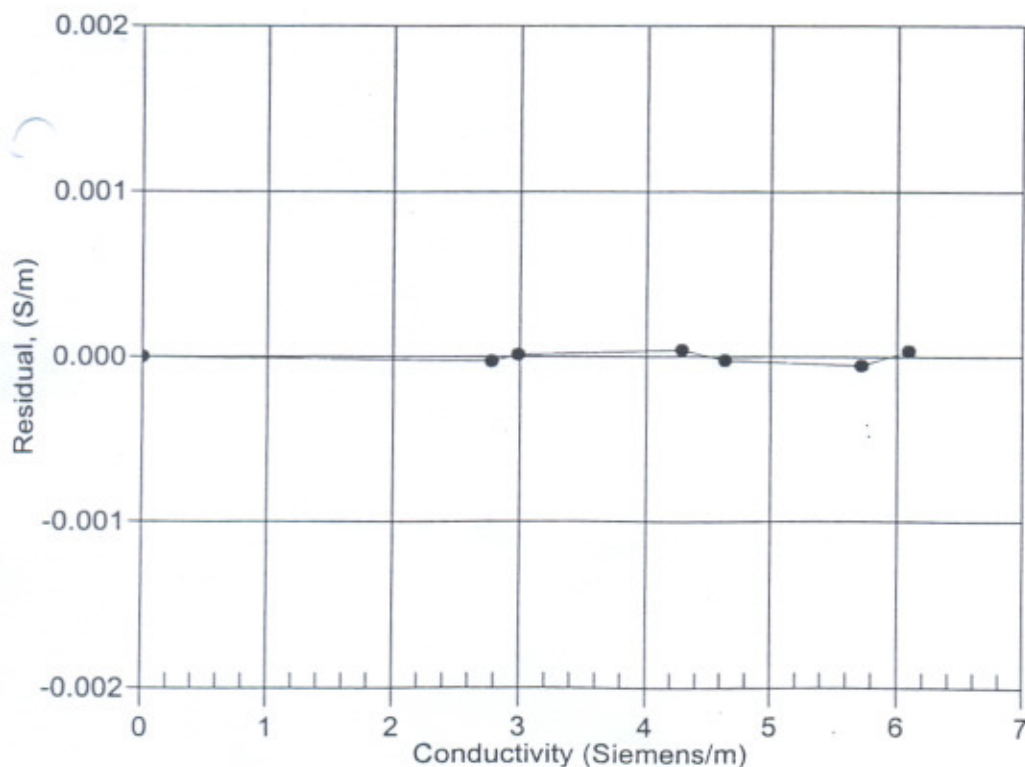
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



08-Mar-06 1.0000000