

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2148
CALIBRATION DATE: 21-Jan-05

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

GHIJ COEFFICIENTS

g = -1.03814844e+001
h = 1.41587259e+000
i = 7.68687911e-004
j = 1.34770605e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.99113268e-004
b = 1.41553998e+000
c = -1.03809142e+001
d = -8.43541760e-005
m = 3.0
CPcor = -9.5700e-008 (nominal)

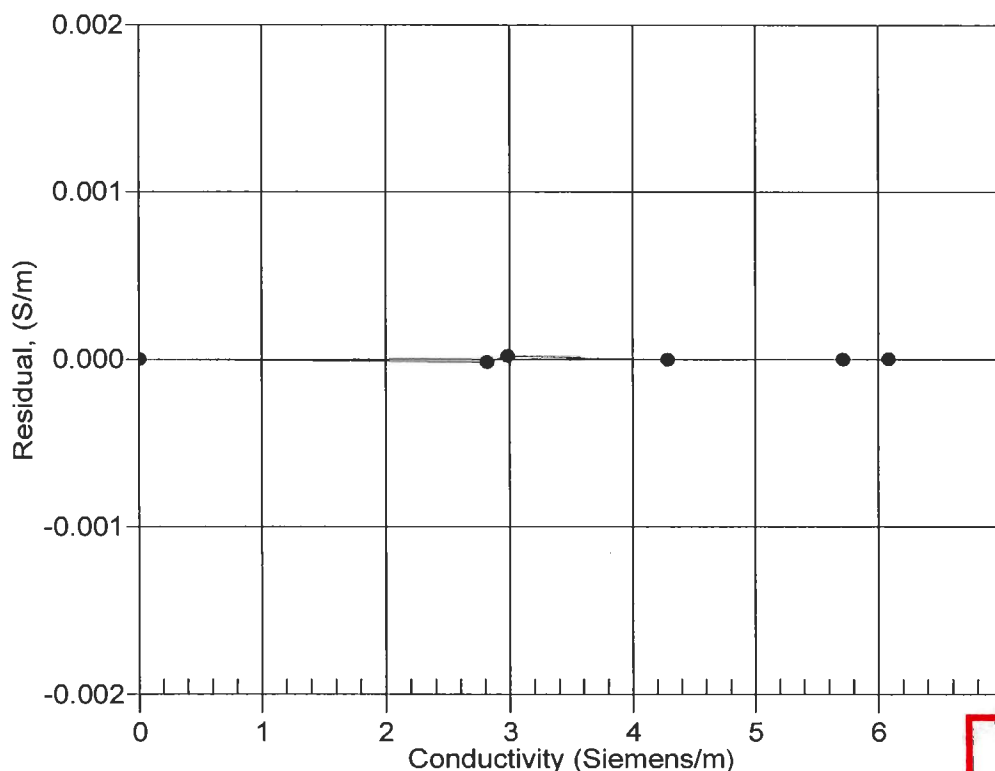
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.70573	0.00000	0.00000
-1.0005	34.9164	2.81184	5.20652	2.81183	-0.00002
0.9995	34.9166	2.98368	5.32128	2.98370	0.00002
14.9995	34.9176	4.28267	6.11911	4.28267	-0.00000
28.9995	34.8747	5.71075	6.88990	5.71075	-0.00000
32.4995	34.8701	6.08425	7.07758	6.08426	0.00000

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-Jan-05 1.0000000

**CALIBRATION
AFTER
MODIFICATIONS**