

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0722
CALIBRATION DATE: 24-Oct-97

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

GHIJ COEFFICIENTS

g = -3.84405103e+000
h = 4.15202582e-001
i = 5.19151823e-005
j = 1.79965446e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.67595933e-005
b = 4.15401476e-001
c = -3.84517712e+000
d = -9.21057168e-005
m = 3.9
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	3.04155	0.00000	0.00000
-1.1700	35.0004	2.80356	8.74320	2.80354	-0.00001
1.1688	35.0028	3.00509	9.01431	3.00511	0.00003
15.2319	35.0012	4.31471	10.60582	4.31468	-0.00003
18.6692	34.9980	4.65690	10.98311	4.65691	0.00001
29.2125	34.9967	5.75116	12.10920	5.75119	0.00003
32.6519	34.9919	6.11954	12.46482	6.11952	-0.00002

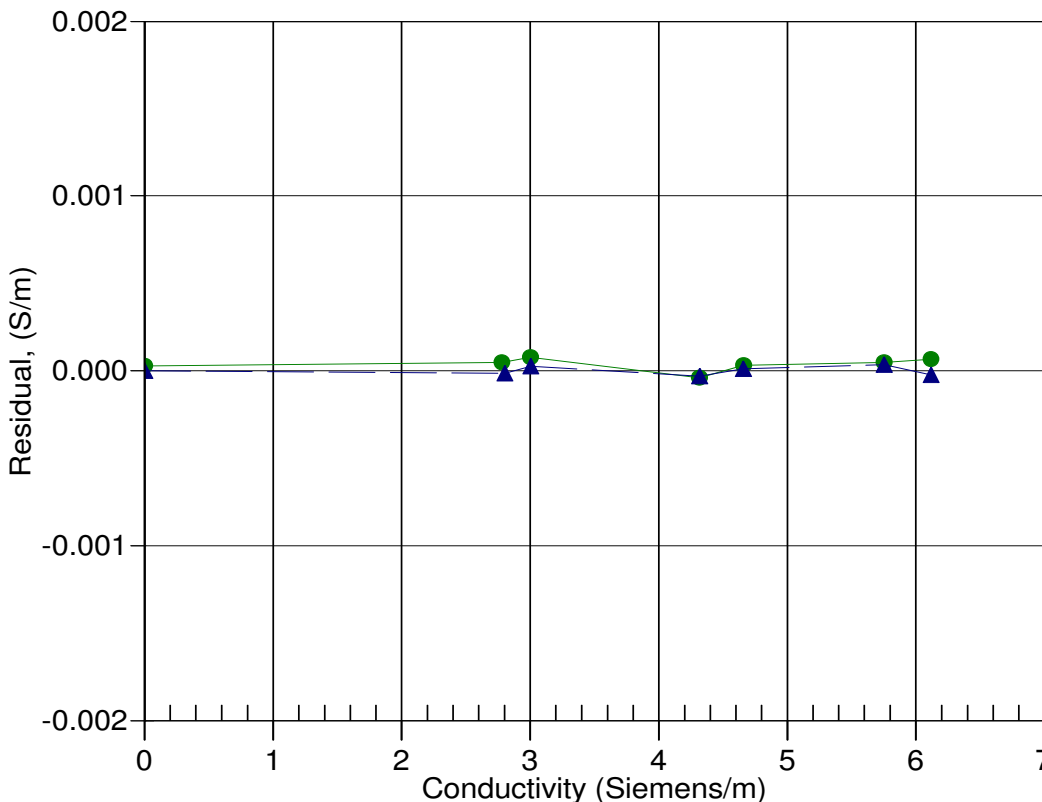
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



03-Jun-97 0.9999921
24-Oct-97 1.0000000