

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0722
CALIBRATION DATE: 19-Feb-99

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

GHIJ COEFFICIENTS

g = -3.84339188e+000
h = 4.15076580e-001
i = 8.21141590e-005
j = 1.67015203e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.60000290e-005
b = 4.15299788e-001
c = -3.84430075e+000
d = -8.63664920e-005
m = 3.8
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	3.04146	0.00000	0.00000
-1.3234	33.8206	2.70504	8.60708	2.70504	0.00000
1.1239	33.8210	2.90932	8.88602	2.90933	0.00000
15.2535	33.8216	4.18649	10.46023	4.18647	-0.00003
18.7230	33.8218	4.52223	10.83557	4.52225	0.00002
29.1115	33.8210	5.56885	11.92839	5.56886	0.00002
32.6623	33.8153	5.93784	12.28997	5.93783	-0.00001

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

