

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2206
CALIBRATION DATE: 19-May-00

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

GHIJ COEFFICIENTS

g = -1.05348724e+001
h = 1.67218958e+000
i = -3.71554007e-003
j = 3.78062691e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.64954768e-008
b = 1.66192481e+000
c = -1.05135427e+001
d = -7.70144754e-005
m = 8.1
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	2.51522	0.00000	0.00000
-1.3793	33.9526	2.71001	4.75706	2.71000	-0.00001
1.1600	33.9536	2.92271	4.88969	2.92273	0.00002
15.2802	33.9534	4.20365	5.62217	4.20365	-0.00001
18.7184	33.9522	4.53735	5.79770	4.53732	-0.00002
29.2616	33.9471	5.60287	6.32536	5.60293	0.00006
32.7014	33.9401	5.96140	6.49309	5.96136	-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

