

SEA-BIRD ELECTRONICS, INC.

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

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

GHIJ COEFFICIENTS

g = -3.84141563e+000
h = 4.14809705e-001
i = 1.19645702e-004
j = 1.51465874e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.88082945e-005
b = 4.15078604e-001
c = -3.84228756e+000
d = -8.51429768e-005
m = 3.7
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	3.04129	0.00000	0.00000
-1.3923	34.9994	2.78462	8.71709	2.78459	-0.00004
1.1476	34.9982	3.00288	9.01122	3.00293	0.00005
15.2662	34.9959	4.31751	10.60861	4.31749	-0.00002
18.7040	34.9933	4.65985	10.98590	4.65984	-0.00001
29.2474	34.9833	5.75292	12.11054	5.75296	0.00004
32.6866	34.9689	6.11973	12.46462	6.11970	-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

