

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0722
CALIBRATION DATE: 04-Oct-02

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

GHIJ COEFFICIENTS

g = -3.84634556e+000
h = 4.15763132e-001
i = -3.24057080e-005
j = 2.19007988e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.50726916e-005
b = 4.15729547e-001
c = -3.84674477e+000
d = -9.11708512e-005
m = 4.1
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	3.04121	0.00000	0.00000
-1.0003	34.2958	2.76650	8.69152	2.76652	0.00003
0.9998	34.2963	2.93570	8.92092	2.93569	-0.00001
14.9998	34.2980	4.21468	10.49183	4.21461	-0.00007
18.4998	34.2972	4.55685	10.87312	4.55689	0.00004
28.9998	34.2947	5.62639	11.98499	5.62646	0.00007
32.4998	34.2877	5.99412	12.34345	5.99407	-0.00005

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

