

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3678
CALIBRATION DATE: 02-Sep-11

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

GHIJ COEFFICIENTS

g = -9.78184239e+000
h = 1.54209359e+000
i = -4.18380212e-004
j = 1.41143557e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.54907408e-005
b = 1.54121773e+000
c = -9.78045514e+000
d = -8.39192288e-005
m = 4.2
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	2.51870	0.00000	0.00000
-1.0000	34.6414	2.79180	4.94218	2.79178	-0.00002
1.0000	34.6419	2.96247	5.05267	2.96249	0.00002
15.0000	34.6415	4.25243	5.81969	4.25244	0.00001
18.5000	34.6416	4.59769	6.00825	4.59767	-0.00002
29.0000	34.6393	5.67658	6.56236	5.67659	0.00001
32.5000	34.6306	6.04726	6.74210	6.04726	-0.00000

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

