

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1374
CALIBRATION DATE: 20-Feb-10

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

GHIJ COEFFICIENTS

g = -3.96459803e+000
h = 4.83957323e-001
i = -1.07033267e-004
j = 3.21776301e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.51660212e-005
b = 4.83683915e-001
c = -3.96407810e+000
d = -8.82903090e-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	2.86230	0.00000	0.00000
-1.0000	34.7437	2.79927	8.11562	2.79929	0.00001
0.9999	34.7440	2.97036	8.32926	2.97036	-0.00000
14.9999	34.7444	4.26372	9.79250	4.26368	-0.00003
18.4999	34.7444	4.60985	10.14776	4.60985	0.00000
28.9999	34.7419	5.69149	11.18377	5.69155	0.00006
32.5000	34.7324	6.06301	11.51748	6.06297	-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

