

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3657
CALIBRATION DATE: 20-Feb-10

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

GHIJ COEFFICIENTS

g = -9.90495973e+000
h = 1.40284226e+000
i = -3.15478924e-003
j = 3.03369735e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.51407035e-008
b = 1.39353389e+000
c = -9.88278060e+000
d = -7.43101829e-005
m = 7.5
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	2.66313	0.00000	0.00000
-1.0000	34.7437	2.79927	5.21284	2.79927	-0.00000
0.9999	34.7440	2.97036	5.32922	2.97037	0.00000
14.9999	34.7444	4.26372	6.13748	4.26372	0.00001
18.4999	34.7444	4.60985	6.33615	4.60984	-0.00001
28.9999	34.7419	5.69149	6.91990	5.69150	0.00000
32.5000	34.7324	6.06301	7.10917	6.06301	-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

