

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1446
CALIBRATION DATE: 13-Dec-06

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

GHIJ COEFFICIENTS

g = -4.18940700e+000
h = 5.55398761e-001
i = 2.62851731e-004
j = 1.27795533e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.43131398e-004
b = 5.55694809e-001
c = -4.18988448e+000
d = -8.19053443e-005
m = 3.4
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	2.74444	0.00000	0.00000
-1.0000	34.9328	2.81308	7.60968	2.81310	0.00001
1.0000	34.9331	2.98499	7.80880	2.98499	-0.00000
14.9999	34.9339	4.28450	9.17390	4.28446	-0.00004
18.4999	34.9322	4.63207	9.50552	4.63209	0.00002
29.0000	34.9279	5.71853	10.47357	5.71858	0.00004
32.5000	34.9204	6.09208	10.78598	6.09205	-0.00003

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

