

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2469
CALIBRATION DATE: 17-Jan-08

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

GHIJ COEFFICIENTS

g = -1.00993678e+001
h = 1.48480212e+000
i = -9.17574708e-004
j = 1.41872068e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.85658527e-006
b = 1.48267178e+000
c = -1.00955427e+001
d = -8.44282246e-005
m = 4.9
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	2.60929	0.00000	0.00000
-1.0000	34.9263	2.81261	5.07560	2.81260	-0.00001
1.0166	34.9265	2.98593	5.18931	2.98593	0.00001
15.0000	34.9265	4.28370	5.97190	4.28370	0.00000
18.5000	34.9261	4.63136	6.16460	4.63137	0.00001
29.0001	34.9212	5.71757	6.73089	5.71755	-0.00003
32.5000	34.9104	6.09054	6.91458	6.09056	0.00002

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

