

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3220
CALIBRATION DATE: 09-Jan-09

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

GHIJ COEFFICIENTS

g = -1.03780038e+001
h = 1.42645233e+000
i = 2.17267046e-004
j = 5.29591283e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.73762118e-004
b = 1.42659156e+000
c = -1.03781498e+001
d = -8.41414763e-005
m = 3.6
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	2.69638	0.00000	0.00000
-1.0000	34.8479	2.80688	5.18696	2.80688	-0.00001
1.0634	34.8482	2.98393	5.30490	2.98395	0.00002
14.9999	34.8493	4.27522	6.09607	4.27522	-0.00001
18.4999	34.8494	4.62228	6.29167	4.62225	-0.00002
29.0000	34.8469	5.70677	6.86691	5.70682	0.00006
32.5000	34.8416	6.07990	7.05385	6.07987	-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

