

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1919
CALIBRATION DATE: 13-May-11

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

GHIJ COEFFICIENTS

g = -3.99257945e+000
h = 5.25737327e-001
i = -1.01719375e-003
j = 8.03830990e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.93339866e-007
b = 5.21911497e-001
c = -3.97954537e+000
d = -7.72374709e-005
m = 5.9
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	2.76154	0.00000	0.00000
-1.0000	34.5805	2.78735	7.80793	2.78730	-0.00005
1.0000	34.5798	2.95767	8.01364	2.95774	0.00007
15.0000	34.5798	4.24566	9.42165	4.24564	-0.00002
18.5000	34.5793	4.59031	9.76329	4.59026	-0.00005
29.0000	34.5730	5.66694	10.75908	5.66705	0.00012
32.5001	34.5593	6.03623	11.07913	6.03616	-0.00007

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

