

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1911
CALIBRATION DATE: 09-Nov-10

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

GHIJ COEFFICIENTS

g = -4.15685438e+000
h = 5.32553087e-001
i = -6.69807928e-004
j = 6.11277167e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.50350882e-007
b = 5.30240727e-001
c = -4.14983296e+000
d = -9.03918910e-005
m = 5.4
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	2.79750	0.00000	0.00000
-1.0000	34.8177	2.80468	7.78730	2.80468	0.00000
1.0000	34.8179	2.97609	7.99144	2.97610	0.00001
15.0000	34.8192	4.27193	9.39012	4.27192	-0.00001
18.5000	34.8197	4.61877	9.72978	4.61873	-0.00004
29.0000	34.8173	5.70246	10.72050	5.70257	0.00011
32.5000	34.8106	6.07511	11.03987	6.07504	-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

