

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1911
CALIBRATION DATE: 26-Jul-12

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

GHIJ COEFFICIENTS

g = -4.15618144e+000
h = 5.32754194e-001
i = -7.04066465e-004
j = 6.28167963e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.49961257e-007
b = 5.30258741e-001
c = -4.14809053e+000
d = -8.21384807e-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	2.79696	0.00000	0.00000
-0.9999	34.4728	2.77948	7.75651	2.77950	0.00002
1.0000	34.4736	2.94945	7.95970	2.94944	-0.00001
15.0001	34.4753	4.23419	9.35202	4.23412	-0.00007
18.5000	34.4747	4.57792	9.69016	4.57795	0.00004
29.0001	34.4731	5.65241	10.67647	5.65249	0.00008
32.5001	34.4641	6.02149	10.99415	6.02143	-0.00006

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

