

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1911
CALIBRATION DATE: 28-Jul-11

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

GHIJ COEFFICIENTS

g = -4.15224921e+000
h = 5.31907310e-001
i = -5.66976352e-004
j = 5.73157969e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.48659268e-006
b = 5.30018873e-001
c = -4.14658312e+000
d = -8.57787235e-005
m = 5.1
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	2.79697	0.00000	0.00000
-1.0000	33.5563	2.71232	7.67508	2.71234	0.00002
1.0000	33.5563	2.87829	7.87562	2.87830	0.00001
15.0000	33.5573	4.13314	9.25028	4.13306	-0.00007
18.5000	33.5567	4.46889	9.58422	4.46890	0.00001
29.0001	33.5539	5.51831	10.55840	5.51844	0.00013
32.5001	33.5465	5.87904	10.87236	5.87895	-0.00009

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

