

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3647
CALIBRATION DATE: 15-Feb-11

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

GHIJ COEFFICIENTS

g = -1.00761535e+001
h = 1.61513355e+000
i = -1.25826804e-003
j = 1.97657642e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.01596926e-005
b = 1.61233434e+000
c = -1.00715927e+001
d = -8.52426232e-005
m = 5.0
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	2.49920	0.00000	0.00000
-1.0000	34.9805	2.81657	4.86809	2.81657	0.00001
1.0000	34.9810	2.98870	4.97633	2.98869	-0.00001
15.0000	34.9802	4.28958	5.72828	4.28958	-0.00000
18.5000	34.9797	4.63770	5.91320	4.63771	0.00001
29.0000	34.9790	5.72596	6.45683	5.72593	-0.00002
32.5001	34.9723	6.10012	6.63337	6.10013	0.00001

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

