

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1374
CALIBRATION DATE: 22-Jun-12

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

GHIJ COEFFICIENTS

g = -4.08220893e+000
h = 4.98212821e-001
i = -5.87791084e-005
j = 3.14927352e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.12660743e-005
b = 4.98082716e-001
c = -4.08210826e+000
d = -8.75950336e-005
m = 4.1
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	2.86220	0.00000	0.00000
-1.0000	34.7336	2.79853	8.01037	2.79857	0.00003
1.0000	34.7345	2.96964	8.22048	2.96962	-0.00002
15.0000	34.7353	4.26273	9.65987	4.26267	-0.00006
18.5000	34.7348	4.60872	10.00942	4.60874	0.00002
29.0000	34.7324	5.69012	11.02904	5.69020	0.00008
32.5000	34.7258	6.06199	11.35786	6.06193	-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

