

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3449

CALIBRATION DATE: 25-Jun-13

SBE4 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## GHIJ COEFFICIENTS

g = -1.04154390e+001

h = 1.58910312e+000

i = -2.48858078e-003

j = 2.92869583e-004

CPcor = -9.5700e-008 (nominal)

CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.01102019e-006

b = 1.58276586e+000

c = -1.04033011e+001

d = -8.43337270e-005

m = 6.1

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	2.56373	0.00000	0.00000
-1.0000	34.7701	2.80120	4.92549	2.80121	0.00001
1.0000	34.7705	2.97242	5.03396	2.97241	-0.00001
15.0000	34.7706	4.26660	5.78806	4.26663	0.00003
18.5000	34.7706	4.61296	5.97359	4.61295	-0.00001
29.0001	34.7699	5.69558	6.51920	5.69555	-0.00003
32.5001	34.7648	6.06804	6.69652	6.06806	0.00002

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];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

