

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1898  
CALIBRATION DATE: 18-Jul-13

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

## GHIJ COEFFICIENTS

g = -1.05882023e+001  
h = 1.51819693e+000  
i = -2.91105376e-005  
j = 8.30603306e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 9.69037599e-005  
b = 1.51806374e+000  
c = -1.05880762e+001  
d = -8.46792910e-005  
m = 3.9  
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	2.64043	0.00000	0.00000
-1.0000	34.8468	2.80680	5.04272	2.80681	0.00001
1.0001	34.8476	2.97839	5.15328	2.97839	-0.00000
15.0001	34.8492	4.27523	5.92219	4.27525	0.00001
18.5000	34.8497	4.62232	6.11146	4.62228	-0.00004
29.0001	34.8487	5.70704	6.66832	5.70710	0.00006
32.5001	34.8447	6.08039	6.84938	6.08036	-0.00004

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

