

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3535  
CALIBRATION DATE: 21-Sep-11

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

### GHIJ COEFFICIENTS

g = -1.00849374e+001  
h = 1.23826838e+000  
i = -3.25591133e-003  
j = 2.55163475e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

### ABCDM COEFFICIENTS

a = 1.06082137e-012  
b = 1.22688125e+000  
c = -1.00490629e+001  
d = -4.68735245e-005  
m = 12.0  
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	2.86220	0.00000	0.00000
-1.0000	35.0042	2.81830	5.58225	2.81829	-0.00000
1.0000	35.0045	2.99051	5.70662	2.99053	0.00002
15.0000	35.0049	4.29229	6.57049	4.29227	-0.00002
18.5000	35.0040	4.64057	6.78286	4.64055	-0.00002
29.0000	34.9970	5.72857	7.40678	5.72865	0.00008
32.5000	34.9851	6.10208	7.60894	6.10203	-0.00005

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

