

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3647  
CALIBRATION DATE: 11-Sep-09

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

## GHIJ COEFFICIENTS

g = -1.00797334e+001  
h = 1.61628910e+000  
i = -1.49459563e-003  
j = 2.07231810e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 3.93644894e-006  
b = 1.61283513e+000  
c = -1.00739891e+001  
d = -8.63026183e-005  
m = 5.4  
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	2.49916	0.00000	0.00000
-0.9999	34.8745	2.80884	4.86304	2.80882	-0.00001
1.0001	34.8746	2.98048	4.97112	2.98050	0.00002
15.0001	34.8756	4.27813	5.72207	4.27811	-0.00002
18.5001	34.8742	4.62523	5.90669	4.62525	0.00002
29.0001	34.8711	5.71029	6.44946	5.71028	-0.00001
32.5002	34.8637	6.08334	6.62570	6.08334	0.00000

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

