

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1896  
CALIBRATION DATE: 16-Jul-10

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

## GHIJ COEFFICIENTS

g = -4.10604347e+000  
h = 5.24069663e-001  
i = -9.57878353e-004  
j = 7.34604072e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.29619645e-007  
b = 5.20384724e-001  
c = -4.09288935e+000  
d = -7.28438353e-005  
m = 6.0  
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	2.80474	0.00000	0.00000
-1.0000	34.6874	2.79516	7.84359	2.79516	-0.00000
1.0000	34.6887	2.96610	8.04969	2.96611	0.00001
15.0000	34.6893	4.25768	9.46076	4.25766	-0.00002
18.5000	34.6893	4.60334	9.80334	4.60332	-0.00002
29.0000	34.6869	5.68351	10.80237	5.68358	0.00007
32.5000	34.6801	6.05492	11.12440	6.05487	-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

