

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2049  
CALIBRATION DATE: 05-Sep-07

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

## GHIJ COEFFICIENTS

g = -1.05701219e+001  
h = 1.46478367e+000  
i = -4.53083776e-003  
j = 5.51263202e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 5.89738285e-006  
b = 1.45299809e+000  
c = -1.05452908e+001  
d = -7.88775005e-005  
m = 5.6  
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	2.69385	0.00000	0.00000
-1.0002	34.9481	2.81418	5.15619	2.81416	-0.00002
1.0810	34.9494	2.99330	5.27390	2.99332	0.00002
14.9998	34.9497	4.28622	6.05476	4.28621	-0.00001
18.4998	34.9482	4.63395	6.24779	4.63397	0.00002
28.9998	34.9427	5.72066	6.81481	5.72063	-0.00003
32.4998	34.9319	6.09384	6.99860	6.09386	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

