

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1553  
CALIBRATION DATE: 19-Sep-08

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

## GHIJ COEFFICIENTS

g = -4.17611933e+000  
h = 5.24328516e-001  
i = 2.15080980e-004  
j = 1.70684375e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 6.48255617e-005  
b = 5.24943872e-001  
c = -4.17824817e+000  
d = -7.99372437e-005  
m = 3.7  
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	2.82018	0.00000	0.00000
-1.0000	34.8062	2.80384	7.81806	2.80386	0.00002
1.0000	34.8066	2.97521	8.02254	2.97519	-0.00002
14.9999	34.8076	4.27065	9.42436	4.27066	0.00001
18.4999	34.8077	4.61734	9.76494	4.61734	-0.00000
29.0000	34.8059	5.70081	10.75889	5.70081	-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

