

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2208  
CALIBRATION DATE: 26-Jan-11

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

## GHIJ COEFFICIENTS

g = -1.03221213e+001  
h = 1.63426893e+000  
i = -2.64556019e-003  
j = 3.02116472e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 7.94099027e-007  
b = 1.62736715e+000  
c = -1.03083620e+001  
d = -7.72023122e-005  
m = 6.2  
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	2.51683	0.00000	0.00000
-1.0000	34.7656	2.80087	4.85147	2.80086	-0.00001
0.9999	34.7659	2.97206	4.95859	2.97207	0.00001
15.0000	34.7655	4.26604	5.70313	4.26604	-0.00000
18.5000	34.7650	4.61230	5.88628	4.61229	-0.00000
29.0000	34.7637	5.69467	6.42488	5.69469	0.00001
32.5001	34.7567	6.06678	6.59976	6.06677	-0.00001

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

