

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1898  
CALIBRATION DATE: 16-Feb-07

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

## GHIJ COEFFICIENTS

g = -1.05813221e+001  
h = 1.51511771e+000  
i = 8.81528513e-004  
j = 3.67399609e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 7.43601266e-004  
b = 1.51531692e+000  
c = -1.05813211e+001  
d = -8.39485125e-005  
m = 3.2  
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	2.64044	0.00000	0.00000
-1.0001	34.9455	2.81400	5.04639	2.81400	-0.00000
0.9999	34.9457	2.98596	5.15701	2.98596	0.00001
14.9999	34.9460	4.28583	5.92632	4.28582	-0.00000
18.4999	34.9453	4.63362	6.11565	4.63362	0.00000
29.0000	34.9421	5.72060	6.67257	5.72060	-0.00000
32.4999	34.9330	6.09402	6.85337	6.09402	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

