

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357  
CALIBRATION DATE: 24-Feb-04

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

## GHIJ COEFFICIENTS

g = -4.06337912e+000  
h = 4.75391834e-001  
i = -1.84446847e-004  
j = 3.45497168e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 1.09196432e-005  
b = 4.74793133e-001  
c = -4.06130585e+000  
d = -8.05160284e-005  
m = 4.3  
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	2.92435	0.00000	0.00000
-1.0002	34.8359	2.80599	8.21319	2.80600	0.00001
0.9998	34.8367	2.97752	8.42888	2.97752	-0.00001
14.9998	34.8375	4.27392	9.90613	4.27388	-0.00004
18.4998	34.8375	4.62086	10.26488	4.62089	0.00003
28.9999	34.8363	5.70521	11.31113	5.70523	0.00001
32.4998	34.8325	6.07847	11.64895	6.07846	-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

