

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1896  
CALIBRATION DATE: 19-Jul-11

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

## GHIJ COEFFICIENTS

g = -4.09095247e+000  
h = 5.22338488e-001  
i = -1.01160291e-003  
j = 8.12848026e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 3.35127327e-007  
b = 5.18512246e-001  
c = -4.07735411e+000  
d = -7.01080828e-005  
m = 5.7  
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	2.80448	0.00000	0.00000
-1.0000	34.8725	2.80868	7.87079	2.80864	-0.00004
1.0000	34.8731	2.98036	8.07772	2.98042	0.00006
15.0000	34.8740	4.27794	9.49360	4.27792	-0.00002
18.5000	34.8739	4.62518	9.83721	4.62515	-0.00003
29.0000	34.8710	5.71027	10.83898	5.71036	0.00009
32.5000	34.8637	6.08332	11.16173	6.08326	-0.00006

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

