

# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0497  
CALIBRATION DATE: 11-Oct-07

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

## GHIJ COEFFICIENTS

g = -4.26879406e+000  
h = 4.60689495e-001  
i = -3.08504038e-004  
j = 3.36978863e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 2.05052827e-006  
b = 4.59636137e-001  
c = -4.26526980e+000  
d = -8.74324437e-005  
m = 4.8  
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	3.04610	0.00000	0.00000
-1.0002	34.9575	2.81487	8.39048	2.81487	-0.00000
0.9998	34.9576	2.98687	8.60969	2.98688	0.00001
14.9998	34.9585	4.28719	10.11226	4.28716	-0.00003
18.4998	34.9581	4.63512	10.47730	4.63513	0.00001
28.9998	34.9542	5.72233	11.54220	5.72237	0.00004
32.4998	34.9454	6.09593	11.88554	6.09590	-0.00002

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

