

# SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

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

SENSOR SERIAL NUMBER: 1346  
CALIBRATION DATE: 21-May-10

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

## GHIJ COEFFICIENTS

g = -4.07130528e+000  
h = 5.36065395e-001  
i = 3.05918108e-005  
j = 2.98060238e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 4.06996289e-005  
b = 5.36101690e-001  
c = -4.07132455e+000  
d = -8.26926003e-005  
m = 3.9  
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	2.75507	0.00000	0.00000
-1.0000	34.6320	2.79111	7.70965	2.79111	0.00000
0.9999	34.6324	2.96173	7.91191	2.96173	0.00000
15.0000	34.6325	4.25145	9.29759	4.25142	-0.00002
18.4999	34.6319	4.59653	9.63409	4.59654	0.00001
29.0000	34.6304	5.67529	10.61603	5.67532	0.00003
32.5000	34.6241	6.04625	10.93283	6.04623	-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

