

# Sea-Bird Electronics, Inc.

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

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1030  
CALIBRATION DATE: 21-Feb-14

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

## GHIJ COEFFICIENTS

g = -4.06786440e+000  
h = 5.73119345e-001  
i = 7.10434166e-006  
j = 3.33072387e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 4.35134538e-005  
b = 5.73035257e-001  
c = -4.06729625e+000  
d = -7.81646333e-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	2.66357	0.00000	0.00000
-1.0000	34.8302	2.80559	7.47425	2.80561	0.00002
1.0000	34.8305	2.97706	7.67045	2.97705	-0.00001
15.0000	34.8299	4.27310	9.01483	4.27310	-0.00000
18.5000	34.8296	4.61994	9.34132	4.61993	-0.00001
29.0000	34.8282	5.70405	10.29408	5.70409	0.00004
32.5000	34.8223	6.07692	10.60151	6.07689	-0.00003

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

