

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: 3338
CALIBRATION DATE: 12-Mar-10

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

GHIJ COEFFICIENTS

g = -1.01982606e+001
h = 1.57805646e+000
i = -2.79659071e-003
j = 3.05555695e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.93669590e-007
b = 1.57055401e+000
c = -1.01827567e+001
d = -7.74565516e-005
m = 6.5
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	2.54630	0.00000	0.00000
-1.0001	34.8128	2.80431	4.93267	2.80431	-0.00000
0.9999	34.8132	2.97572	5.04197	2.97572	-0.00000
14.9999	34.8127	4.27121	5.80145	4.27121	0.00001
18.4999	34.8121	4.61786	5.98823	4.61787	0.00000
28.9999	34.8107	5.70149	6.53736	5.70147	-0.00002
32.5000	34.8056	6.07433	6.71581	6.07435	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]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

