

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: 1553
CALIBRATION DATE: 08-Jul-11

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

GHIJ COEFFICIENTS

g = -4.17705789e+000
h = 5.24420161e-001
i = 2.08468083e-004
j = 1.77046741e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.63537379e-005
b = 5.24833966e-001
c = -4.17827693e+000
d = -8.64336465e-005
m = 3.6
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	2.82029	0.00000	0.00000
-1.0000	34.8572	2.80756	7.82212	2.80760	0.00004
1.0000	34.8578	2.97917	8.02671	2.97915	-0.00002
15.0000	34.8590	4.27630	9.42927	4.27624	-0.00006
18.5000	34.8586	4.62337	9.77003	4.62336	-0.00001
29.0001	34.8565	5.70817	10.76458	5.70832	0.00015
32.5000	34.8470	6.08074	11.08494	6.08064	-0.00010

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

